

09/78/89 1

111

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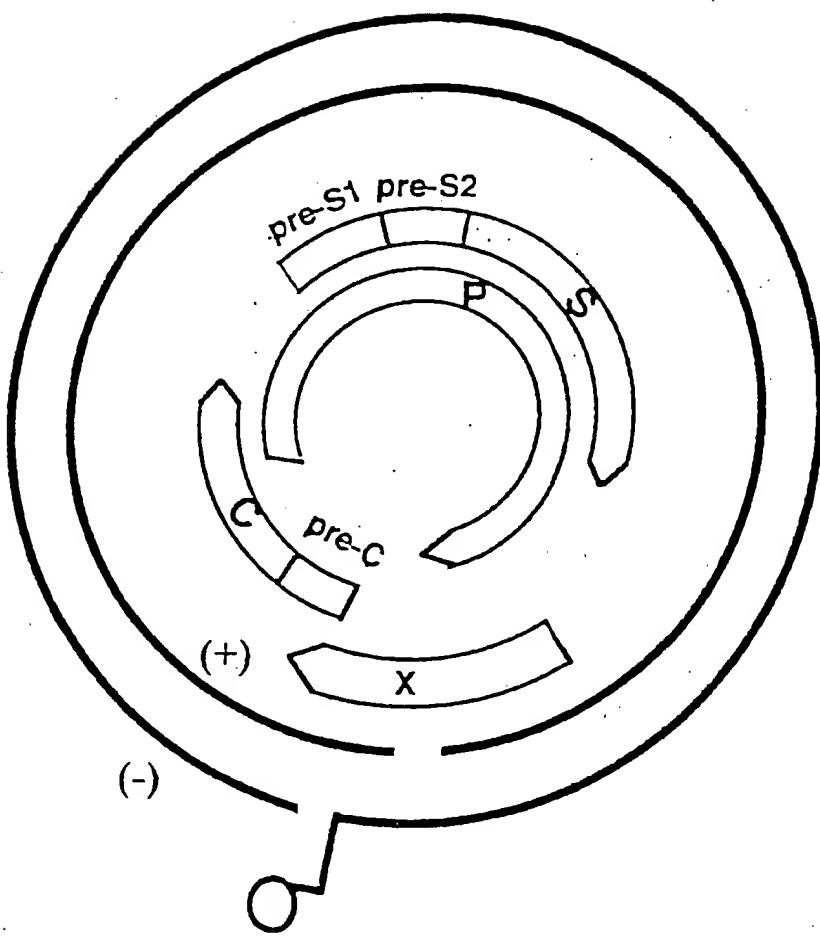


Figure 1A



100

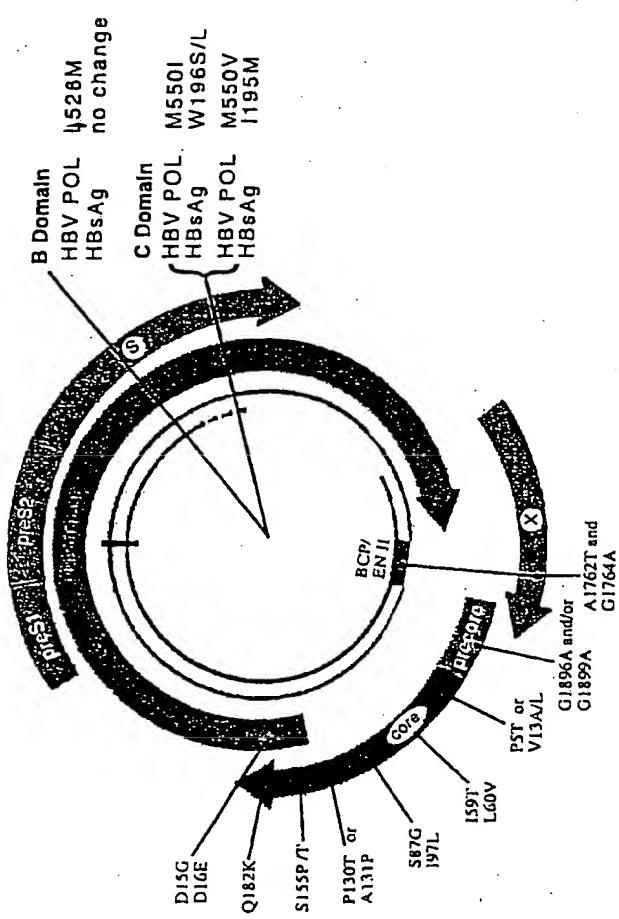


Figure 1B

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(421) 430 440 450

422 438

SNDLSWLSLD VSAAFYHI_PPL HPAAMPHLLIV GSSGLD_SRYVA

Domain A

<u>HBsAg G112R</u>	<u>T123P</u>	<u>Y/F134S</u>	<u>D144E G145R</u>
460	470	480	490
464 466	477	488	499
RLSST _N S _R NNI*N NY _H Q _Y _H G _R ***D _N LH D _N Y _S CSR _D QLYVS LL _M LLYK _Q TY _F GR _W			

<u>HBsAg</u>	<u>A157D</u>	<u>E164D</u>	<u>F170L</u>
500	510	520	530
512	519 523/524/526/528/530		
KLHL _Y _L S _A HPI _I _V LGFRK _I _L PMGV _G GLSPFLLAQF TSAIC _L S _A V _M V _T R _C R			

Domain B

	<u>W196L</u>	<u>W199S</u>
<u>HBsAg</u>	<u>M195I/S196W M198I S204T</u>	<u>S210R</u>
540	550	560
546	550 553	559 565
AFF _P HCL _V A _V FS _A Y MDDV _L _M VLGAK _R S _T V _G Q _E HLS _R ES _F LY _F T _A S _A		

Domain C

570 580 590

575
I_VT_CN_SF_VLLS_DL_VGI HLNPN_QKTKRW GYSLNFMGY_I_VI G

Domain D

Domain E

Figure 2

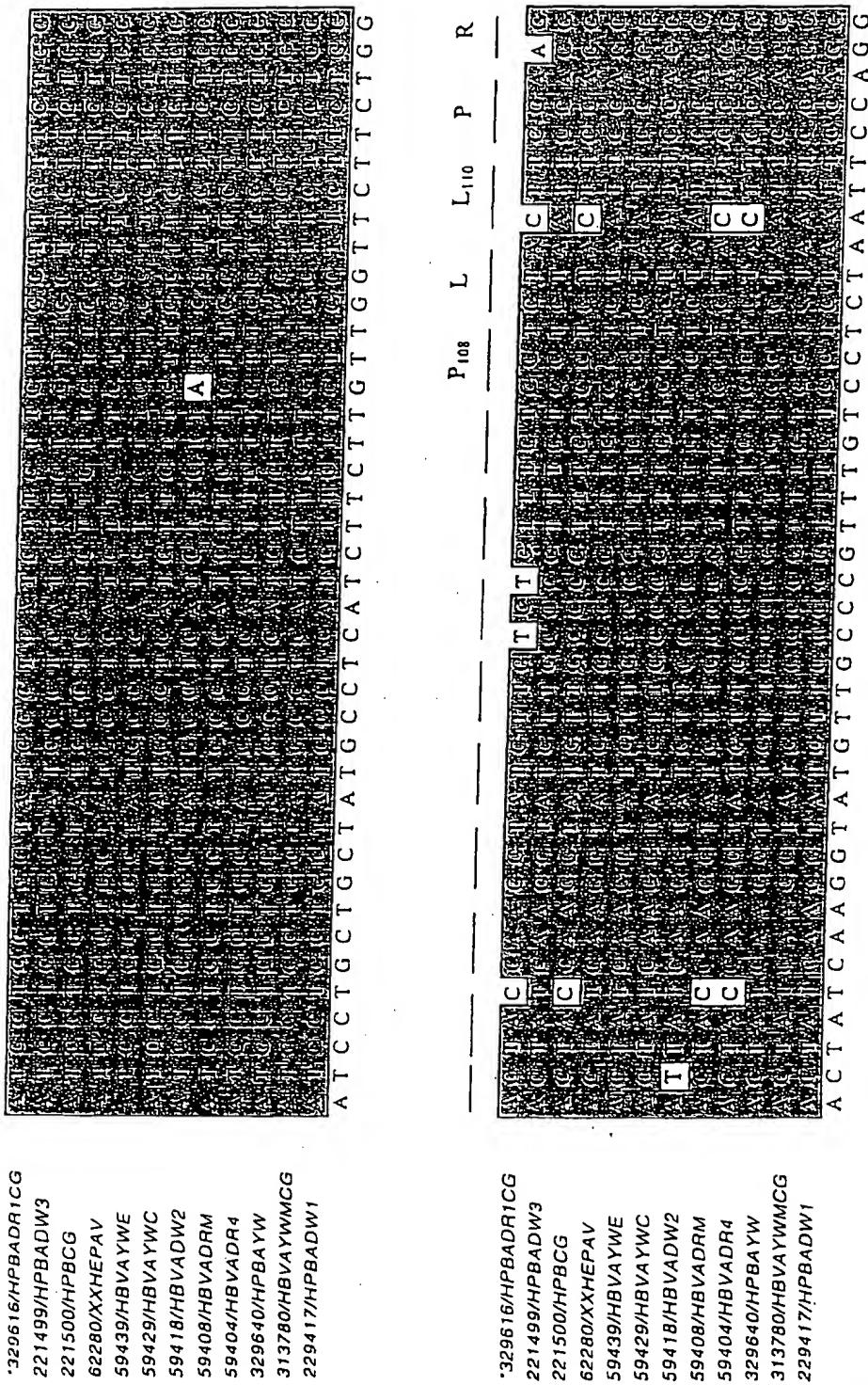


Figure 3

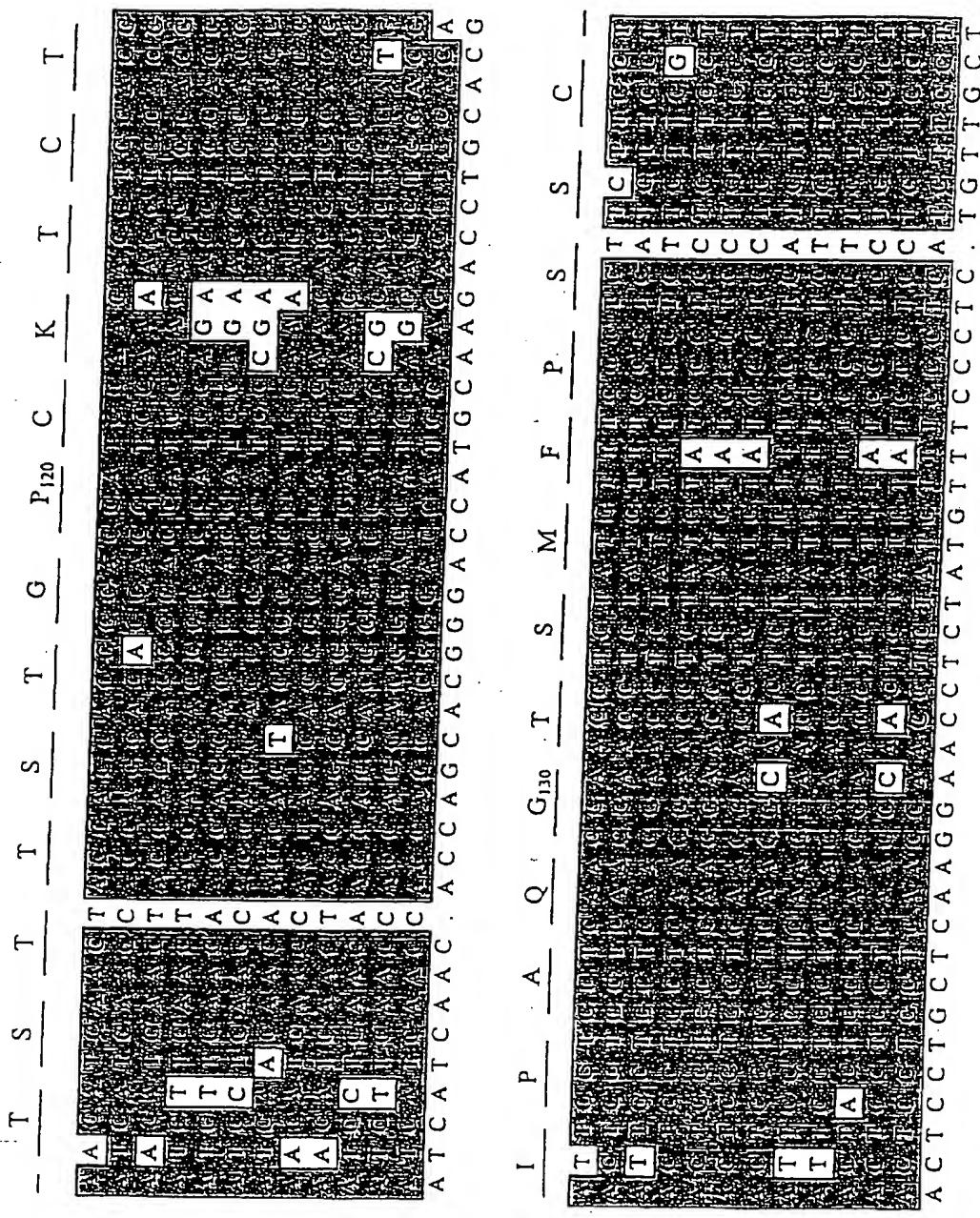


Figure 3 continued

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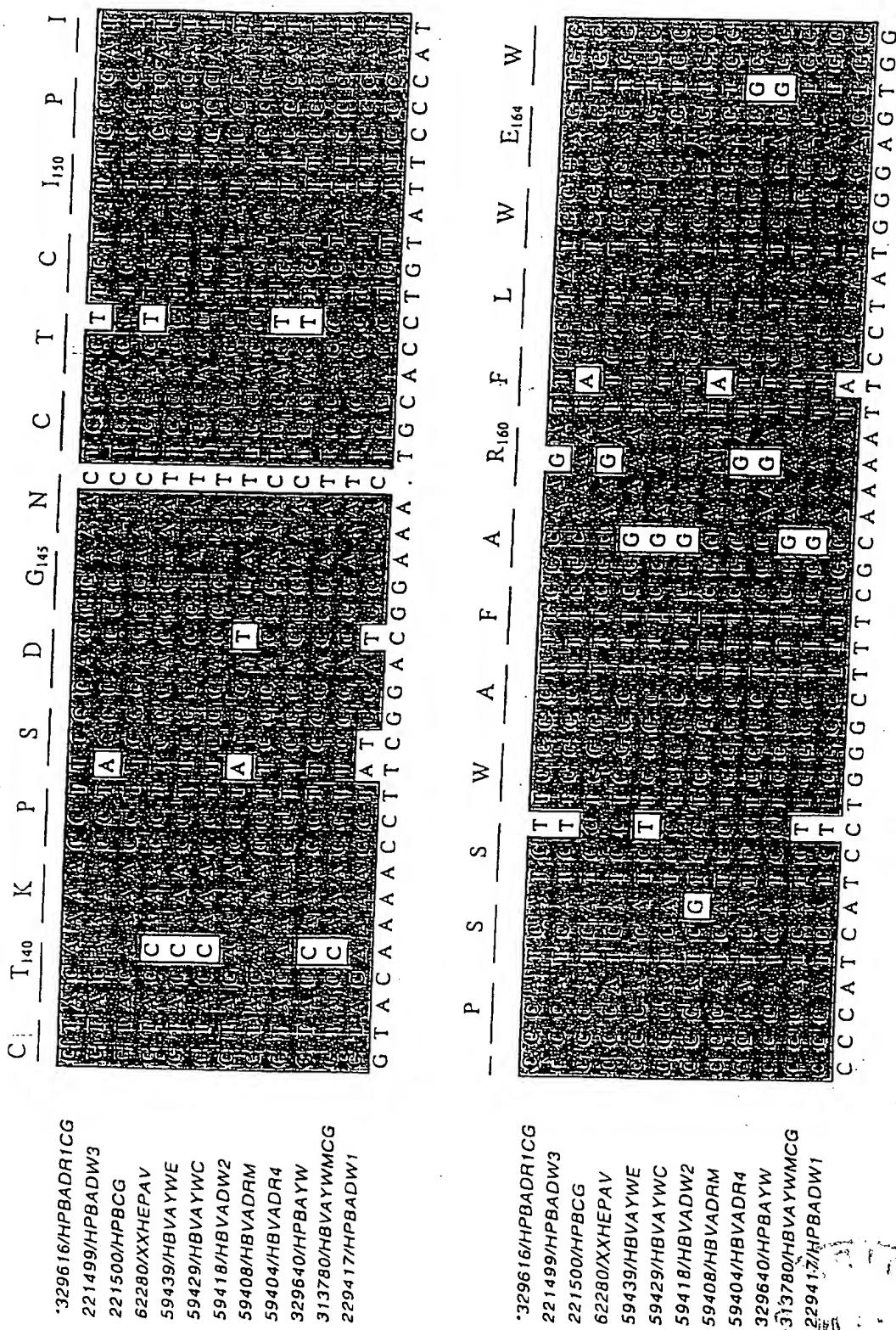
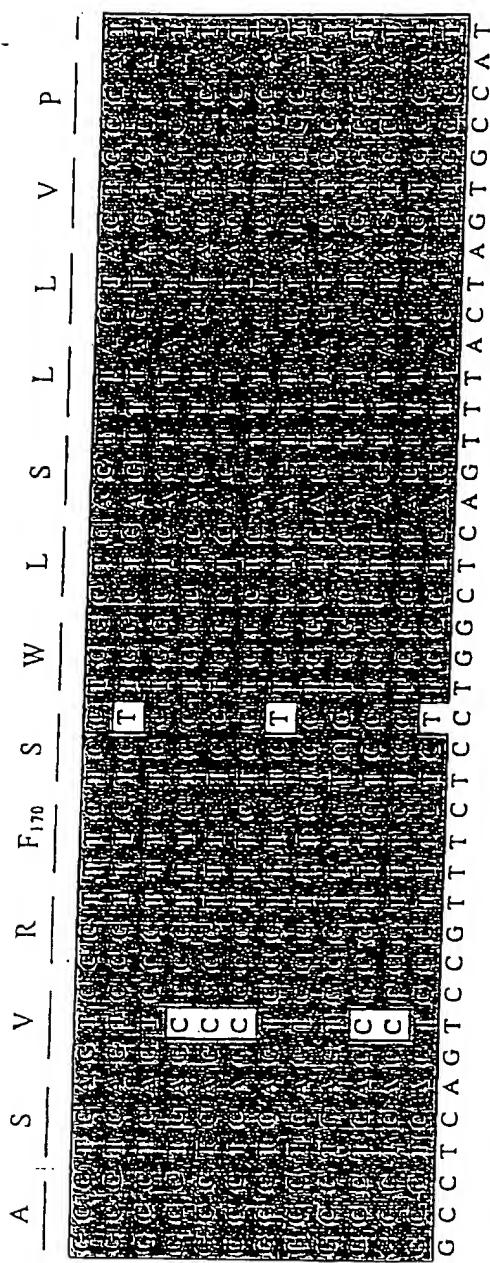
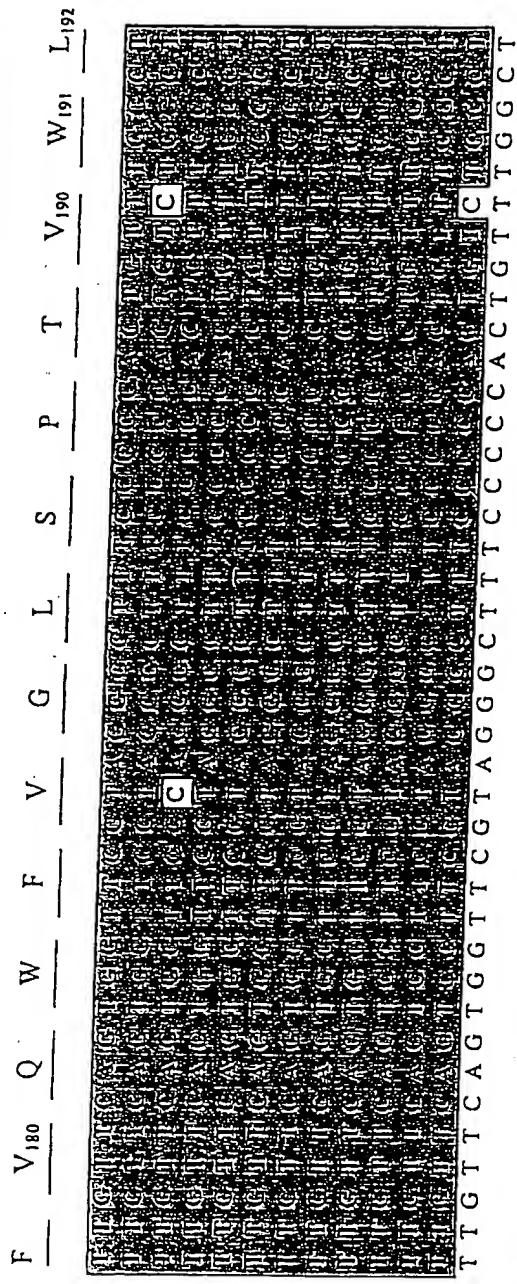


Figure 3 continued

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-329616/HPBADRC
-2221499/HPBADW3
-2221500/HPBBCG
-622280/XHEPAV
-59439/HBVAYWE
-59429/HBVAYWC
-59418/HBVADW2
-59408/HBVADRM
-59404/HBVADR4
-329640/HPBAYW
-313780/HBVAYWMCG
-22229417/HPBADW1



‘3299616/HPBADR1CG
32221499/HPBADW3
32221500/HPBCG
662280/XXHEPAV
559439/HBVAYWE
559429/HBVAYWC
559418/HBVADW2
559408/HBVADRM
559404/HBVADR4
3329640/HPBAYW
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22229947/HPBADW1

Figure 3 continued

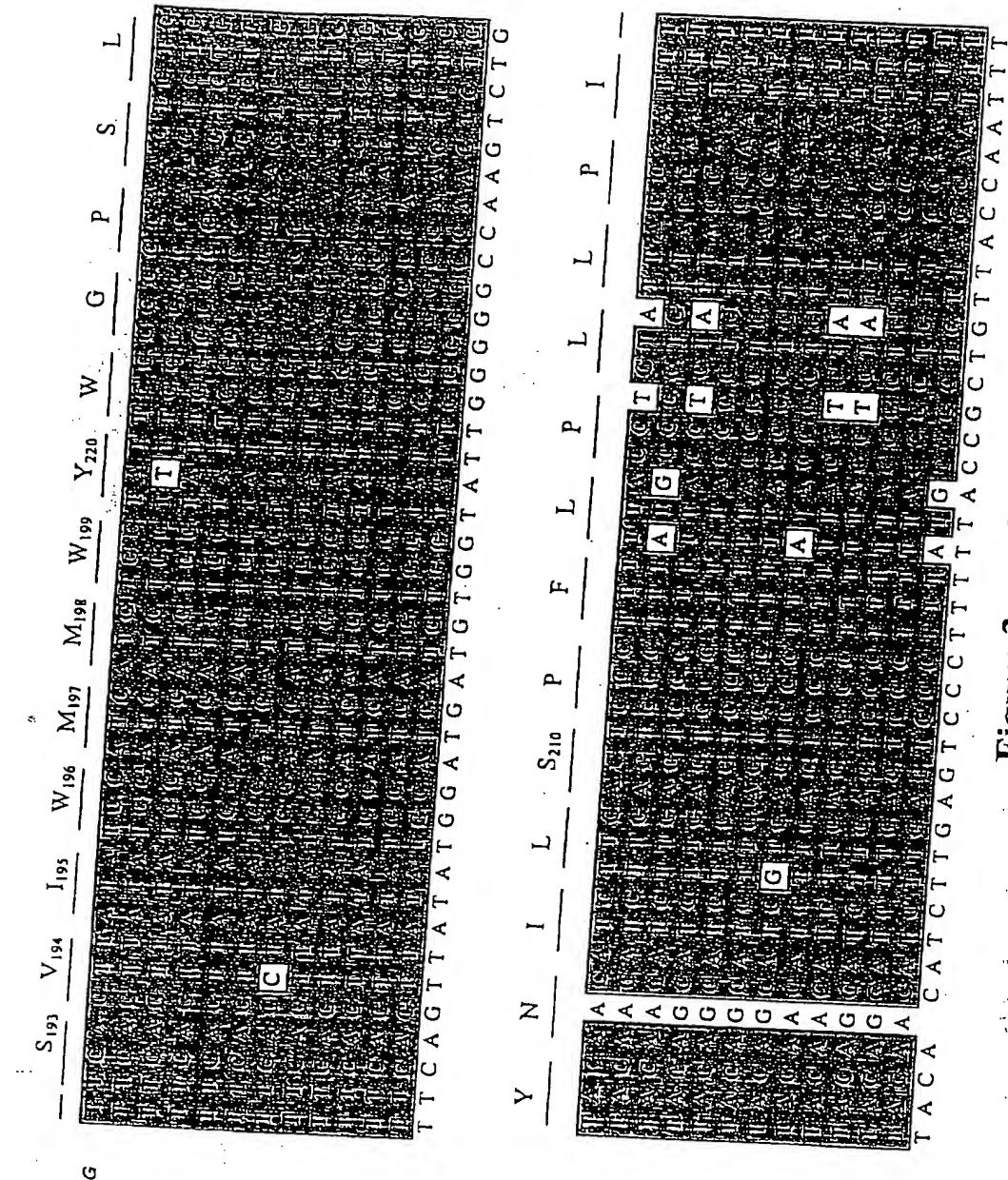


Figure 3. continued

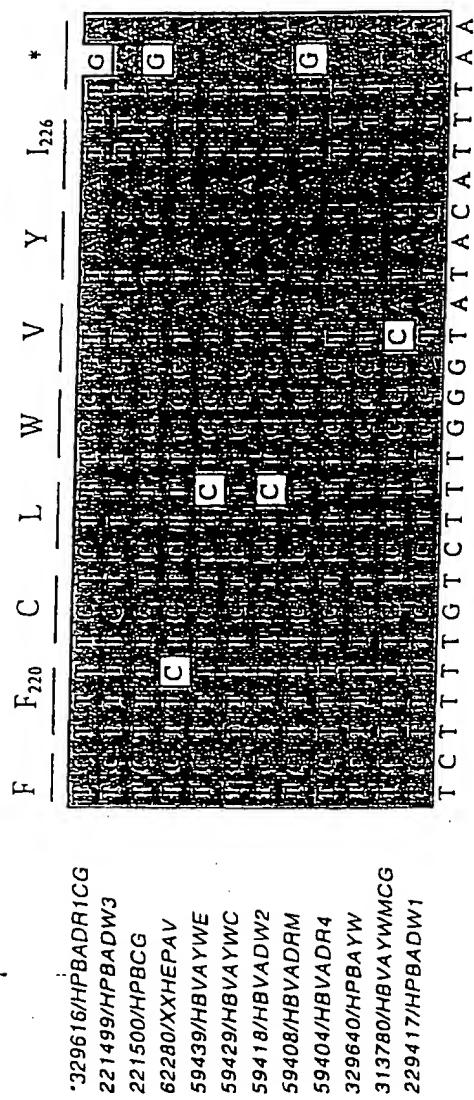


Figure 3 continued



pBBHBV1.28

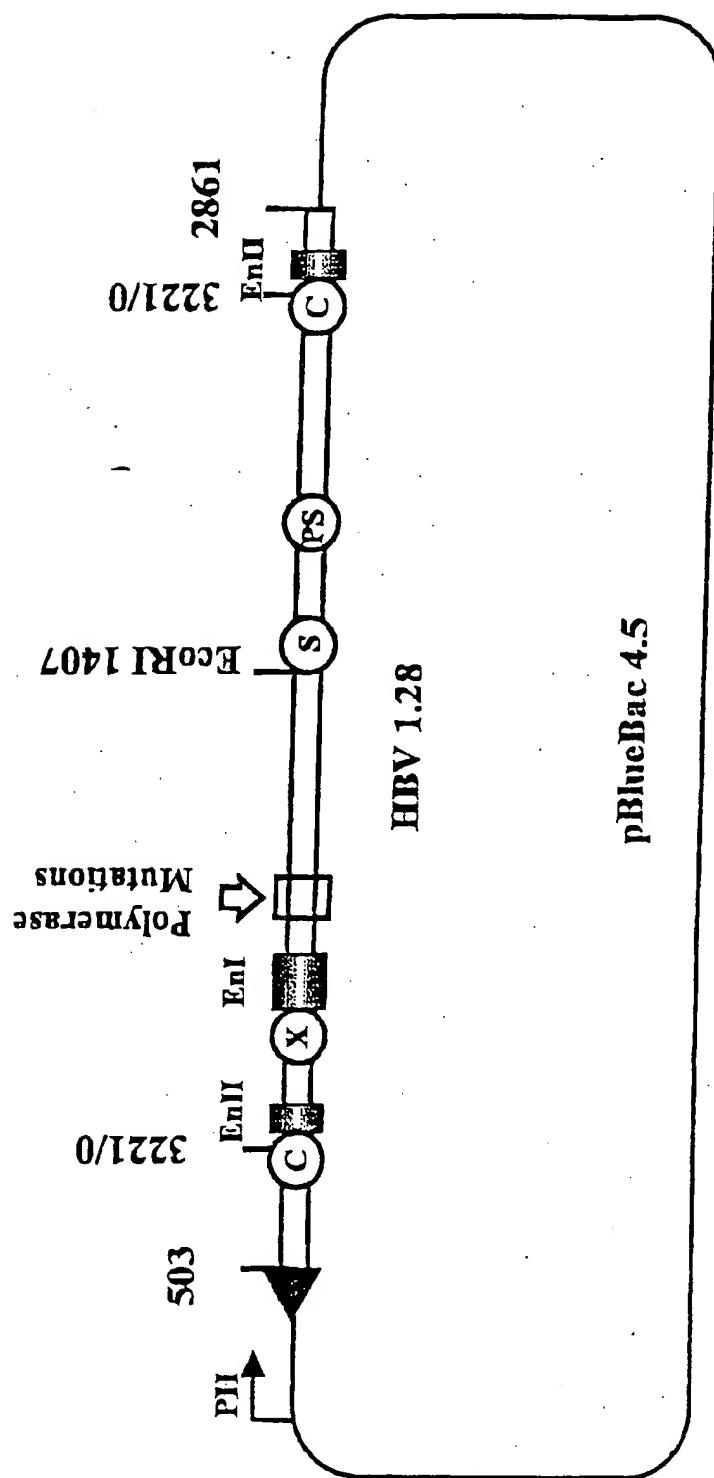
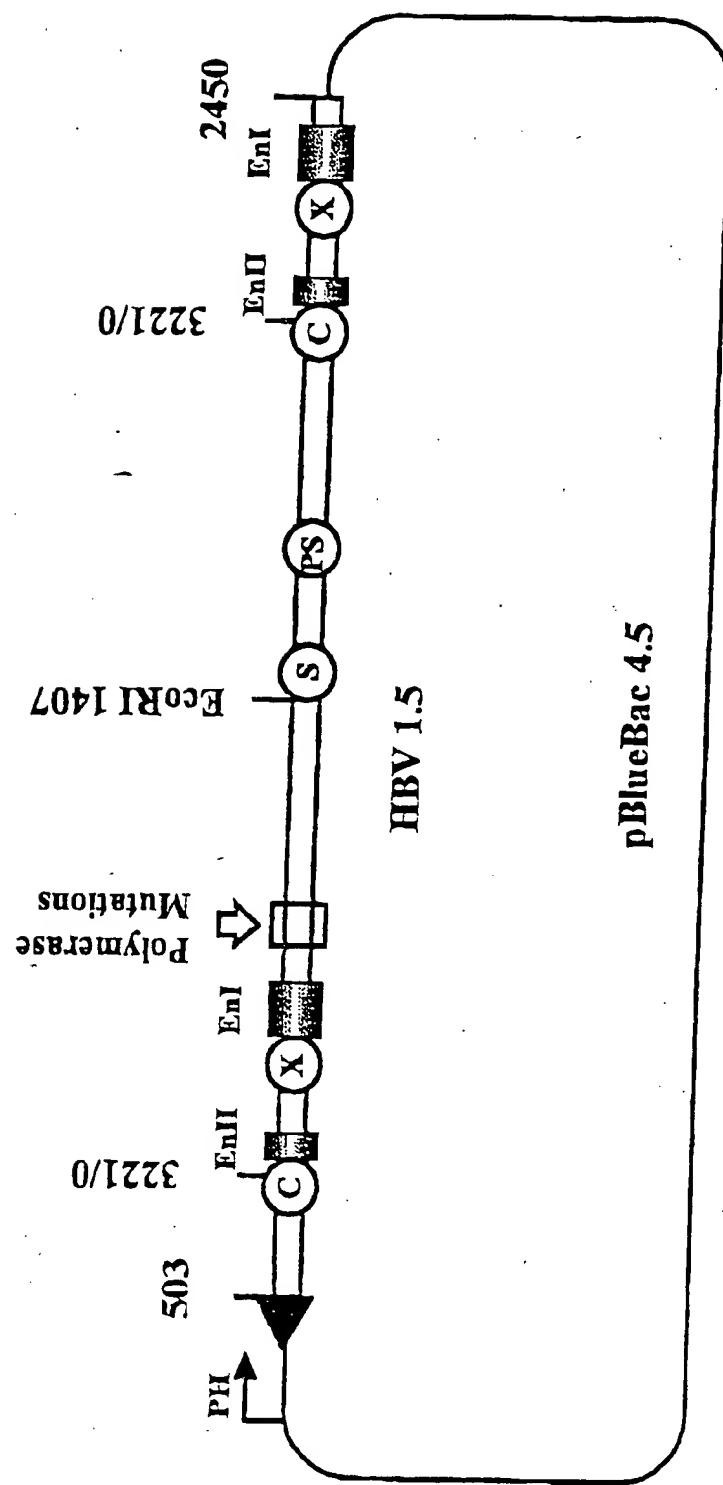


Figure 4A

pBB1B1V1.5

Figure 4B

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Sequence Range: 1 to 4084

10	20	30	40	50
GGACGACCCCTCGCGGGGCCGCTTGGGACTCTCTCGTCCCCTCTCCGTC				
60	70	80	90	100
TGCCGTTCCAGCCGACCACGGGGCGCACCTCTCTTACGCGGTCTCCCCG				
110	120	130	140	150
TCTGTGCCTCTCATCTGCCGGTCCGTGTGCACTTCGCTTCACCTCTGCA				
160	170	180	190	200
CGTTGCATGGAGACCACCGTGAACGCCATCAGATCCTGCCAAGGTCTT				
210	220	230	240	250
ACATAAGAGGACTCTGGACTCCCAGCAATGTCAACGACCGACCTTGAGG				
260	270	280	290	300
CCTACTTCAAAGACTGTGTGTTAAGGACTGGGAGGAGCTGGGGAGGAG				
310	320	330	340	350
ATTAGGTTAAAGGTCTTGTATTAGGAGGCTGTAGGCATAATTGGTCTG				
360	370	380	390	400
CGCACCAAGCACCATGCAACTTTTCACCTCTGCCATAATCATCTTGTAC				
410	420	430	440	450
ATGTCCTCAACTGTTCAAGCCTCAAGCTGTGCCCTGGTGGCTTGGGCA				
460	470	480	490	500
TGGACATTGACCCCTATAAAGAATTGGAGCTACTGTGGAGTTACTCTCG				
510	520	530	540	550
TTTTGCCTCTGACTTCTTCCCTCGTCAGAGATCTCCTAGACACCGC				
560	570	580	590	600
CTCAGCTCTGTATCGAGAACGCCTAGAGTCTCCTGAGCATTGCTCACCTC				
610	620	630	640	650
ACCATACTGCACTCAGGCAAGCCATTCTCTGCTGGGGGAAATTGATGACT				
660	670	680	690	700
CTAGCTACCTGGTGGTAATAATTGGAAGATCCAGCATCCAGGGATCT				

Figure 5A

710 720 730 740 750
 AGTAGTCATTATGTTAATCAACATGGGTTAAAGATCAGGCAACTAT
 760 770 780 790 800
 TGTGGTTCATATATCTTGCCTACTTTGGAAGAGAGACTGTACTTGAA
 810 820 830 840 850
 TATTTGGTCTCTTCGGAGTGTGGATTGCACTCCTCCAGCCTATAGACC
 860 870 880 890 900
 ACCAAATGCCCTATCTTATCAACACTTCCGGAAACTACTGTTGTTAGAC
 910 920 930 940 950
 GACGGGACCGAGGCAGGTCCCCCTAGAAGAAGAACTCCCTCGCCTCGCAGA
 960 970 980 990 1000
 CGCAGATCTCAATGCCGCGTCGCAGAAGATCTCAATCTCGGAAATCTCA
 1010 1020 1030 1040 1050
 ATGTTAGTATTCTTGGACTCATAAGGTGGAAACTTTACGGGCTTTAT
 1060 1070 1080 1090 1100
 TCCTCTACAGTACCTATTTAACCTGAATGGCAAACCTCCCTCTTCC
 1110 1120 1130 1140 1150
 TAAGATTCAATTACAAGAGGACATTATTAATAGGTGTCACAAATTGTGG
 1160 1170 1180 1190 1200
 GCCCTCTCACTGTAAATGAAAAGAGAAGATTGAAATTAAATTATGCCTGCT
 1210 1220 1230 1240 1250
 AGATTCTATCCTACCCACACTAAATATTGCCCTTAGACAAAGGAATTAA
 1260 1270 1280 1290 1300
 ACCTTATTATCCAGATCAGGTAGTTAATCATTACTTCAAACCCAGACATT
 1310 1320 1330 1340 1350
 ATTTACATACTCTTGGAAAGGCTGGTATTCTATATAAGAGGGAAACCACAA
 1360 1370 1380 1390 1400
 CGTAGCGCATCTTGCAGGTACCATATTCTGGAAACAAGAGCTACAA
 1410 1420 1430 1440 1450
 GCATGGGAGGTTGGTCATCAAACCTCGCAAAGGCATGGGACGAATCTT

Figure 5A continued

1460 1470 1480 1490 1500
 TCTGTTCCAACCCTCTGGATTCTTCCCGATCATCAGTTGGACCCTGC
 1510 1520 1530 1540 1550
 ATTGGAGGCCAACTCAAACAATCCAGATTGGGACTTCAACCCCATCAAGG
 1560 1570 1580 1590 1600
 ACCACTGGCCAGCAGCCAACCAGGTAGGAGTGGGAGCATTGGGCCAGGG
 1610 1620 1630 1640 1650
 CTCACCCCTCCACACGGCGGTATTTGGGGTGGAGCCCTCAGGCTCAGGG
 1660 1670 1680 1690 1700
 CATATTGACCACAGTGTCAACAATTCCCTCCTGCCTCCACCAATCGC
 1710 1720 1730 1740 1750
 AGTCAGGAAGGCAGCCTACTCCCATCTCTCACCTCTAACAGACAGTCAT
 1760 1770 1780 1790 1800
 CCTCAGGCCATGCAGTGGATTCCACTGCCTCCACCAAGGCTCTGCAGGA
 1810 1820 1830 1840 1850
 TCCCAGAGTCAGGGGTCTGTATCTCCTGCTGGTGGCTCCAGTTCAAGGAA
 1860 1870 1880 1890 1900
 CAGTAAACCCCTGCTCGGAATATTGCCCTCTCACATCTCGTCAATCTCCGCG
 1910 1920 1930 1940 1950
 AGGACTGGGACCCCTGTGACGAACATGGAGAACATCACATCAGGATTCC
 1960 1970 1980 1990 2000
 AGGACCCCTGCTCGTGTACAGGCGGGTTTCTTGTGACAAGAACATCC
 2010 2020 2030 2040 2050
 TCACAATACCGCAGAGTCTAGACTCGTGGGACTTCTCTCAATTCTCA
 2060 2070 2080 2090 2100
 GGGGGATCTCCCGTGTCTGGCCAAAATTCGCAGTCCCCAACCTCCAA
 2110 2120 2130 2140 2150
 TCACTCACCAACCTCCTGCTCCAAATTGTCCTGGTTATCGCTGGATGT
 2160 2170 2180 2190 2200
 GTCTGCGGCGTTTATCATATTCCCTTCACTCCTGCTGCTATGCCTCATC

Figure 5A continued

2210 2220 2230 2240 2250
 TTCTTATTGGTTCTCTGGATTATCAAGGTATGTTGCCGTTGTCCTCT

 2260 2270 2280 2290 2300
 AATTCCAGGATCAACAACAACCAGTACGGGACCATGCAAAACCTGCACGA

 2310 2320 2330 2340 2350
 CTCCCTGCTCAAGGCAACTCTATGTTCCCTCATGTTGCTGTACAAACCT

 2360 2370 2380 2390 2400
 ACGGATGGAAATTGCACCTGTATTCCCATCCCATCGTCCTGGGCTTCGC

 2410 2420 2430 2440 2450
 AAAATACCTATGGGAGTGGGCCTCAGTCCGTTCTCTGGCTCAGTTAC

 2460 2470 2480 2490 2500
 TAGTGCCATTGTTAGTGGTCGTAGGGCTTCCCCACTGTTGGCTT

 2510 2520 2530 2540 2550
 TCAGCTATATGGATGATGTGGTATTGGGGGCCAAGTCTGTACAGCATCGT

 2560 2570 2580 2590 2600
 GAGTCCCTTATACCGCTGTTACCAATTTCTTTGTCTCTGGGTATACA

 2610 2620 2630 2640 2650
 TTTAAACCTAACAAAACAAAAAGATGGGGTTATTCCCTAAACTCATGG

 2660 2670 2680 2690 2700
 GCTACATAATTGGAAGTTGGGAACCTTGCCACAGGATCATATTGTACAA

 2710 2720 2730 2740 2750
 AAGATCAAACACTGTTAGAAAACCTCCTGTTAACAGGCCTATTGATTG

 2760 2770 2780 2790 2800
 GAAAGTATGTCAAAGAATTGTGGGTCTTGGGCTTGCTGCTCCATTAA

 2810 2820 2830 2840 2850
 CACAATGTGGATATCCTGCCTTAATGCCTTGTATGCATGTATAAGCT

 2860 2870 2880 2890 2900
 AACAGGGCTTCACTTCTGCCAACTTACAAGGCCTTCTAAGTAAACA

 2910 2920 2930 2940 2950
 GTACATGAACCTTACCCCGTTGCTCGGCAACGGCCTGGTCTGTGCCAAG

Figure 5A continued

2960 2970 2980 2990 3000
 TGTTTGCTGACGCAACCCCCACTGGCTGGGCTTGGCCATAGGCCATCAG

 3010 3020 3030 3040 3050
 CGCATGCGTGGAACCTTGTGGCTCCTCTGCCGATCCATACTGCGGAAC

 3060 3070 3080 3090 3100
 CCTAGCCGTTGTTTGCTCGCAGCCGGCTGGAGCAAAGCTCATCGGAA

 3110 3120 3130 3140 3150
 CTGACAATTCTGTCGCTCTCGCGGAAATATAACATCGTTCCATGGCTG

 3160 3170 3180 3190 3200
 CTAGGCTGTACTGCCAAGTGGATCCTCGCGGGACGTCCCTTGTACGT

 3210 3220 3230 3240 3250
 CCCGTGGCGCTGAATCCCGCGGACGACCCCTCGCGGGCCGCTGGGAC

 3260 3270 3280 3290 3300
 TCTCTCGTCCCCCTCTCCGTCTGCCGTTCCAGCCGACCACGGGGCGCACC

 3310 3320 3330 3340 3350
 TCTCTTACGCGGTCTCCCCGTCTGTGCCTCTCATCTGCCGGTCCGTGT

 3360 3370 3380 3390 3400
 GCACTTCGCTTCACCTCTGCACGTTGCATGGAGACCAACCGTGAACGCCA

 3410 3420 3430 3440 3450
 TCAGATCCTGCCAACGGTCTTACATAAGAGGACTCTGGACTCCCAGCAA

 3460 3470 3480 3490 3500
 TGTCAACGACCGACCTTGAGGCCTACTTCAAAGACTGTGTGTTAAGGAC

 3510 3520 3530 3540 3550
 TGGGAGGAGCTGGGGAGGAGATTAGGTTAAAGGTCTTGTATTAGGAGG

 3560 3570 3580 3590 3600
 CTGTAGGCATAAATTGGTCTGCGCACCAAGCACCATGCAACTTTCACCT

 3610 3620 3630 3640 3650
 CTGCCTAATCATCTTGTACATGTCCACTGTTCAAGCCTCAAGCTGT

 3660 3670 3680 3690 3700
 GCCTTGGGTGGCTTGGGGCATGGACATTGACCCCTATAAAGAATTGGA

Figure 5A continued

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3710 3720 3730 3740 3750
GCTACTGTGGAGTTACTCTCGTTTGCCTTCTGACTTCTTCCTTCCGT

3760 3770 3780 3790 3800
CAGAGATCTCCTAGACACCGCCTCAGCTCTGTATCGAGAACGCTTAGAGT

3810 3820 3830 3840 3850
CTCCTGAGCATTGCTCACCTCACCATACTGCACTCAGGCAAGCCATTCTC

3860 3870 3880 3890 3900
TGCTGGGGGAATTGATGACTCTAGCTACCTGGGTGGTAATAATTGGGA

3910 3920 3930 3940 3950
AGATCCAGCATCCAGGGATCTAGTAGTCATTATGTTAACATGAACTAAGATGG

3960 3970 3980 3990 4000
GTTTAAAGATCAGGCAACTATTGTGGTTCATATATCTTGCCTTACTTT

4010 4020 4030 4040 4050
GGAAGAGAGACTGTACTTGAATATTGGTCTTTGGAGTGTGGATTGCG

4060 4070 4080
CACTCCTCCAGCCTATAGACCACCAAATGCCCT

Figure 5A continued

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Sequence Range: 1 to 4496

10 20 30 40 50
GATATCCTGCCTTAATGCCTTGATGCATGTATAACAGCTAACAGGCT

60 70 80 90 100
TTCACTTCTGCCAACTTACAAGGCCTTCTAAGTAAACAGTACATGAA

110 120 130 140 150
CCTTTACCCCGTTGCTCGGCAACGGCCTGGTCTGTGCCAAGTGTGCTG

160 170 180 190 200
ACGCAACCCCCACTGGCTGGGCTTGGCCATAGGCCATCAGCGCATGCGT

210 220 230 240 250
GGAACCTTGTGGCTCCTCTGCCGATCCATACTGCCGAACTCCTAGCCGC

260 270 280 290 300
TTGTTTGCTCGCAGCCGGTCTGGAGCAAAGCTCATCGGAACTGACAATT

310 320 330 340 350
CTGTCGTCCCTCGCGGAAATACATCGTTCCATGGCTGCTAGGCTGT

360 370 380 390 400
ACTGCCAATGGATCCTCGCGGGACGTCCCTTGTACGTCCCGTCGGC

410 420 430 440 450
GCTGAATCCCGCGGACGACCCCTCGCGGGGCCGTTGGACTCTCGTC

460 470 480 490 500
CCCTTCTCCGTCTGCCGTTCCAGCCGACCACGGGGCGCACCTCTTTAC

510 520 530 540 550
GCGGTCTCCCGTCTGTGCCCTCATCTGCCGGTCCGTGTGCACTTCGC

560 570 580 590 600
TTCACCTCTGCACGTTGCATGGAGACCACCGTGAACGCCATCAGATCCT

610 620 630 640 650
GCCCAAGGTCTTACATAAGAGGACTCTGGACTCCAGCAATGTCAACGA

660 670 680 690 700
CCGACCTTGAGGCCTACTTCAAAGACTGTGTGTTAAGGACTGGGAGGAG

Figure 5B

710 720 730 740 750
 CTGGGGGAGGAGATTAGGTTAAAGGTCTTGTATTAGGAGGCTGTAGGCA
 760 770 780 790 800
 TAAATTGGTCTGCGCACAGCACCATGCAACTTTCACCTCTGCCATAAT
 810 820 830 840 850
 CATCTCTTGTACATGTCCCACGTGTTCAAGCCTCCAAGCTGTGCCCTGGGT
 860 870 880 890 900
 GGCTTTGGGGCATGGACATTGACCCATTAAAGAATTGGAGCTACTGTG
 910 920 930 940 950
 GAGTTACTCTCGTTTGCCTCTGACTTCTTCCTCCGTCAAGAGATCT
 960 970 980 990 1000
 CCTAGACACCGCCTCAGCTCTGTATCGAGAAGCCTAGAGTCTCCTGAGC
 1010 1020 1030 1040 1050
 ATTGCTCACCTCACCATACTGCACTCAGGCAAGCCATTCTCTGCTGGGGG
 1060 1070 1080 1090 1100
 GAATTGATGACTCTAGCTACCTGGTGGGTAAATAATTGGAAGATCCAGC
 1110 1120 1130 1140 1150
 ATCCAGGGATCTAGTAGTCATTATGTTAACTAACATGGTTAAAGA
 1160 1170 1180 1190 1200
 TCAGGCAACTATTGTGGTTCATATATCTTGCCTACTTGGAAAGAGAG
 1210 1220 1230 1240 1250
 ACTGTACTTGAATATTGGTCTCTTCGGAGTGTGGATTCGCACTCCTCC
 1260 1270 1280 1290 1300
 AGCCTATAGACCACCAAATGCCCTATCTTATCAACACTCCGGAAACTA
 1310 1320 1330 1340 1350
 CTGTTGTTAGACGACGGGACCGAGGCAGGTCCCCTAGAAGAACACTCCC
 1360 1370 1380 1390 1400
 TCGCCTCGCAGACGCAGATCTCAATGCCCGTCGCAGAACATCTCAATC
 1410 1420 1430 1440 1450
 TCGGGAAATCTCAATGTTAGTATTCCCTGGACTCATAAGGTGGAAACTTT

Figure 5B continued

1460 1470 1480 1490 1500
 ACGGGGCTTATTCCCTACAGTACCTATCTTAATCCTGAATGGCAAAC.

1510 1520 1530 1540 1550
 TCCTTCCTTCCTAAGATTCAAGAGGACATTATAATAGGTGTC

1560 1570 1580 1590 1600
 ACAAATTGTGGGCCCTCACTGTAAATGAAAAGAGAAGATTGAAATTA

1610 1620 1630 1640 1650
 ATTATGCCTGCTAGATTCTATCCTACCCACACTAAATATTCGCCCTAGA

1660 1670 1680 1690 1700
 CAAAGGAATTAAACCTTATTATCCAGATCAGGTAGTTAATCATTACTCC

1710 1720 1730 1740 1750
 AAACCAGACATTATTACATACTCTTGGAGGCTGGTATTCTATATAAG

1760 1770 1780 1790 1800
 AGGGAAACCACACGTAGCGCATCTTGGGTGACCATATTCTTGGGA

1810 1820 1830 1840 1850
 ACAAGAGCTACAGCATGGGAGGTTGGTCATCAAAACCTCGAAAGGCATG

1860 1870 1880 1890 1900
 GGGACGAATCTTCTGTTCCAACCCTCTGGGATTCTTCCGATCATCA

1910 1920 1930 1940 1950
 GTTGGACCCTGCATTGGAGCCAATCAAACAATCCAGATTGGGACTTCA

1960 1970 1980 1990 2000
 ACCCCATCAAGGACCACTGGCCAGCAGCCAACCAGGTAGGAGTGGAGCA

2010 2020 2030 2040 2050
 TTCGGGCCAGGGCTCACCCCTCCACACGGCGGTATTTGGGGTGGAGCCC

2060 2070 2080 2090 2100
 TCAGGGCTCAGGGCATATTGACCACAGTGTCAACAATTCCCTCCTGCCT

2110 2120 2130 2140 2150
 CCACCAATCGGCAGTCAGGAAGGCAGCCTACTCCATCTCCACCTCTA

2160 2170 2180 2190 2200
 AGAGACAGTCATCCTCAGGCCATGCAGTGGATTCCACTGCCTTCCACCA

Figure 5B continued

2210 2220 2230 2240 2250
 AGCTCTGAGGATCCCAGAGTCAGGGGTCTGTATCTCCTGCTGGTGGCT

 2260 2270 2280 2290 2300
 CCAGTTAGGAACAGTAAACCTGCTCCGAATATTGCCTCTCACATCTCG

 2310 2320 2330 2340 2350
 TCAATCTCCGAGGACTGGGGACCCCTGTGACGAACATGGAGAACATCAC

 2360 2370 2380 2390 2400
 ATCAGGATCCTAGGACCCCTGCTCGTGTACAGGGGGTTTCTTGT

 2410 2420 2430 2440 2450
 TGACAAGAATCCTACAATACCGCAGAGTCTAGACTCGTGGTGGACTTCT

 2460 2470 2480 2490 2500
 CTCAATTTCTAGGGGGATCTCCCGTGTCTGGCCAAAATTCGCAGTC

 2510 2520 2530 2540 2550
 CCCAACCTCCAATCACTCACCAACCTCCTGCTCCAATTGTCCTGGTT

 2560 2570 2580 2590 2600
 ATCGCTGGATGTGTCTCGGCCTTATCATATTCCCTTCATCCTGCTG

 2610 2620 2630 2640 2650
 CTATGCCTCATCTTCTTATTGGTTCTCTGGATTATCAAGGTATGTTGCC

 2660 2670 2680 2690 2700
 CGTTTGCCTCTAATTCCAGGATCAACAAACACCAGTACGGGACCATGCA

 2710 2720 2730 2740 2750
 AACACCTGCACGACTCCTGCTCAAGGCAACTCTATGTTCCCTCATGTTGC

 2760 2770 2780 2790 2800
 TGTACAAAACCTACGGATGGAAATTGCACCTGTATTCCCATCCATCGTC

 2810 2820 2830 2840 2850
 CTGGGCTTCGCAAAATACCTATGGAGTGGGCCTCAGTCCGTTCTCTT

 2860 2870 2880 2890 2900
 GGCTCAGTTACTAGTGCCATTGTTCAAGTGGTCGTAGGGCTTCCCCC

 2910 2920 2930 2940 2950
 ACTGTTGGCTTCAGCTATATGGATGATGTTATTGGGGGCCAAGTCT

Figure 5B continued

2960 2970 2980 2990 3000
 GTACAGCATCGTGAGTCCCTTATACCGCTTACCAATTTCTTTGTC
 3010 3020 3030 3040 3050
 TCTGGGTATACTTAAACCCCTAACAAAACAAAAGATGGGGTTATTCCC
 3060 3070 3080 3090 3100
 TAAACTTCATGGGCTACATAATTGGAAGTTGGGAACCTTGCCACAGGAT
 3110 3120 3130 3140 3150
 CATATTGTACAAAAGATCAAACACTGTTTAGAAAACCTTCCTGTTAACAG
 3160 3170 3180 3190 3200
 GCCTATTGATTGAAAGTATGTCAAAGAATTGTGGTCTTTGGCTTG
 3210 3220 3230 3240 3250
 CTGCTCCATTACACAATGTGGATATCCTGCCTTAATGCCCTTGTATGCA
 3260 3270 3280 3290 3300
 TGTATACAAGCTAACAGGCTTCACTTCTGCCAACTTACAAGGCCTT
 3310 3320 3330 3340 3350
 TCTAAGTAAACAGTACATGAACCTTACCCGTTGCTCGCAACGGCCTG
 3360 3370 3380 3390 3400
 GTCTGTGCCAAGTGTGCTGACGCAACCCCCACTGGCTGGGCTTGGCC
 3410 3420 3430 3440 3450
 ATAGGCCATCAGCGCATGCGTGGAACCTTGTGGCTCCTCTGCCGATCCA
 3460 3470 3480 3490 3500
 TACTGCGGAACTCCTAGCCGCTTGTGCTCGCAGCCGGTCTGGAGCAA
 3510 3520 3530 3540 3550
 AGCTCATCGGAACTGACAATTCTGTCGTCCCTCGCGGAAATATACATCG
 3560 3570 3580 3590 3600
 TTTCATGGCTGCTAGGCTGTACTGCCAATGGATCCTCGCGGGACGTC
 3610 3620 3630 3640 3650
 CTTTGTACGTCCCGTCGGCGCTGAATCCCGCGGACGACCCCTCGCGGG
 3660 3670 3680 3690 3700
 GCCGCTTGGACTCTCGTCCCCCTCTCCGTCTGCCGTTCCAGCCGACC

Figure 5B continued

3710 3720 3730 3740 3750
 ACGGGGCGCACCTCTCTTACCGGGCTCCCGTCTGTGCCTCTCATCT

 3760 3770 3780 3790 3800
 GCCGGTCCGTGTGCACTCGCTCACCTCTGCACGTTGCATGGAGACCAC

 3810 3820 3830 3840 3850
 CGTGAACGCCCATCAGATCCTGCCAAGGTCTTACATAAGAGGACTCTG

 3860 3870 3880 3890 3900
 GACTCCCAGCAATGTCAACGACCGACCTTGAGGCCTACTTCAAAGACTGT

 3910 3920 3930 3940 3950
 GTGTTAAGGACTGGGAGGAGCTGGGGAGGAGATTAGTTAAAGGTCTT

 3960 3970 3980 3990 4000
 TGTATTAGGAGGCTGTAGGCATAAATTGGTCTGCGCACAGCACCATGCA

 4010 4020 4030 4040 4050
 ACTTTTACCTCTGCCTAATCATCTTGTACATGTCCCCTGTTCAAG

 4060 4070 4080 4090 4100
 CCTCCAAGCTGTGCCTGGGTGGCTTGGGCATGGACATTGACCCTTAT

 4110 4120 4130 4140 4150
 AAAGAATTGGAGCTACTGTGGAGTTACTCTGTTTGCCTCTGACTT

 4160 4170 4180 4190 4200
 CTTCCCTCCGTAGAGATCTCCTAGACACCGCCTAGCTCTGTATCGAG

 4210 4220 4230 4240 4250
 AAGCCTTAGAGTCTCCTGAGCATTGCTCACCTCACCATACTGCACTCAGG

 4260 4270 4280 4290 4300
 CAAGCCATTCTCTGCTGGGGGAATTGATGACTCTAGCTACCTGGGTGGG

 4310 4320 4330 4340 4350
 TAATAATTGGAAGATCCAGCATCCAGGGATCTAGTAGTCAATTATGTTA

 4360 4370 4380 4390 4400
 ATACTAACATGGTTAAAGATCAGGCAACTATTGTGGTTCATATATCT

 4410 4420 4430 4440 4450
 TGCCTTACTTTGGAAAGAGAGACTGTACTTGAATATTGGTCTCTTCGG

 4460 4470 4480 4490
 AGTGTGGATTCGCACTCCTCCAGCCTATAGACCACCAATGCCCT

Figure 5B continued

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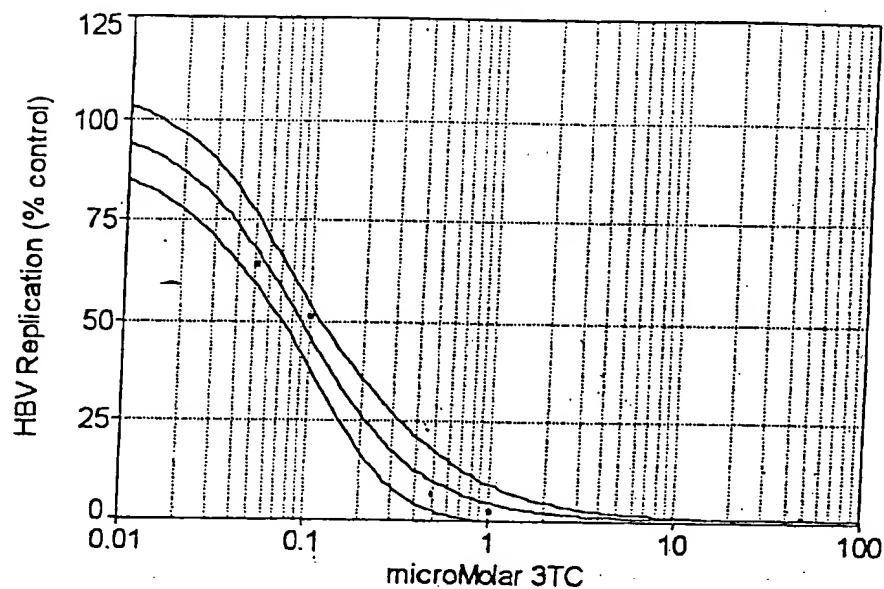
Rank 2 Eqn 8076 [LgstdoseRsp] $y=a/(1+(x/b)^c)$ 

Figure 6A

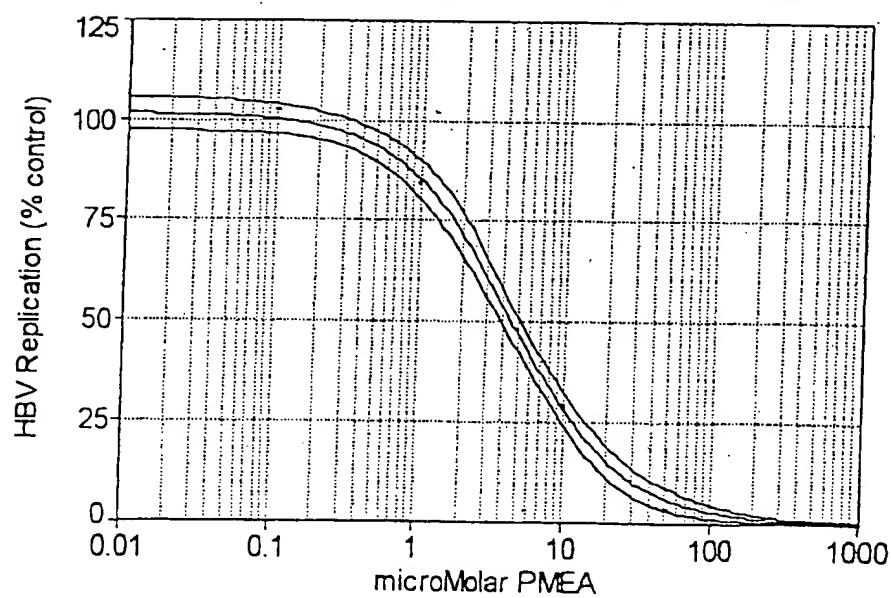
Rank 2 Eqn 8076 [LgstdoseRsp] $y=a/(1+(x/b)^c)$ 

Figure 6B

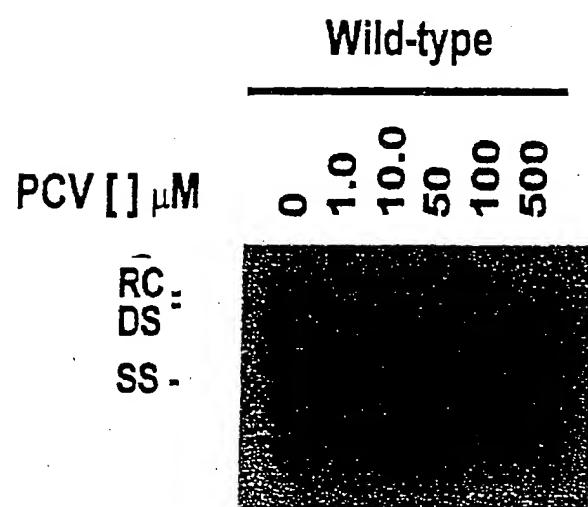


Figure 6C

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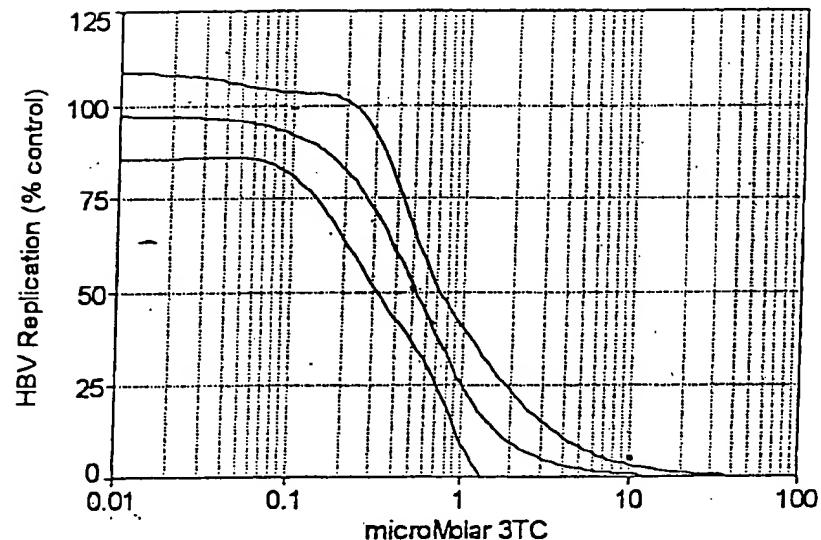
Rank 2 Eqn 8076 [LgstcDoseRsp_] $y=a/(1+(x/b)^c)$ 

Figure 7A

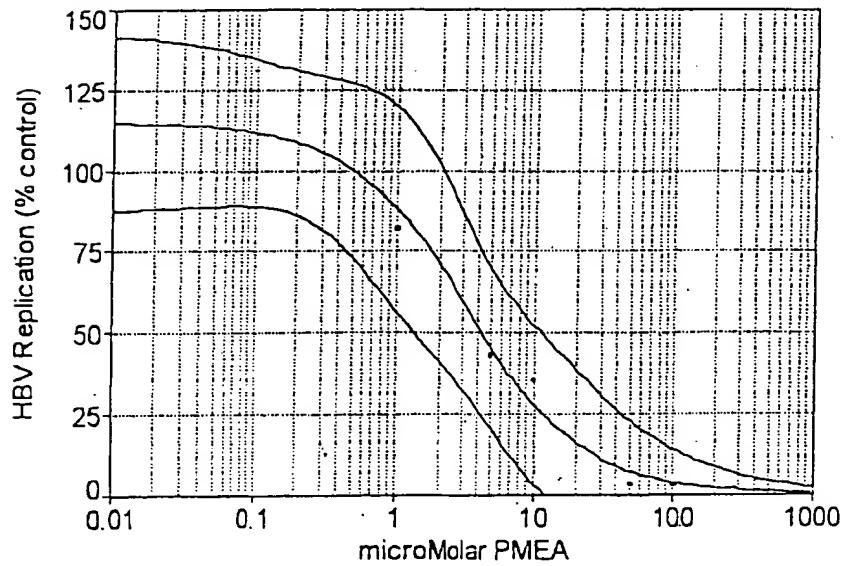
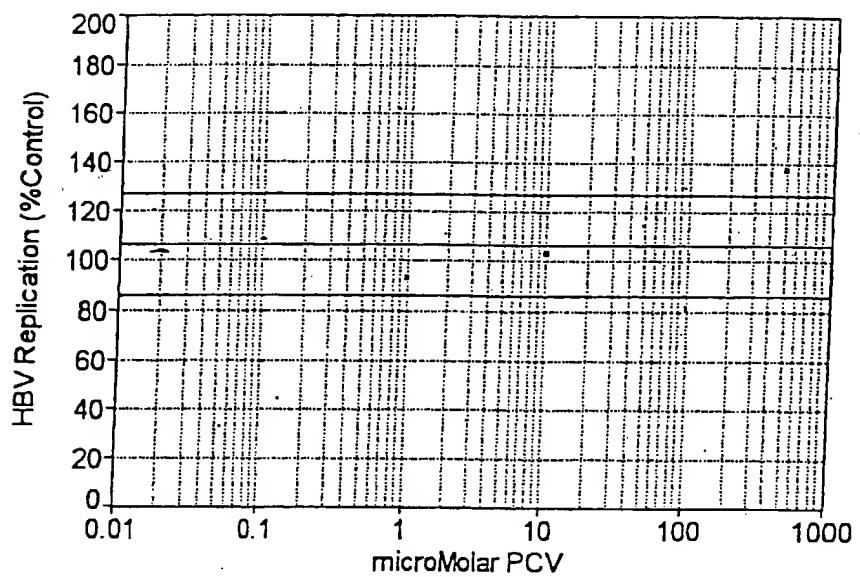
Rank 2 Eqn 8076 [LgstcDoseRsp_] $y=a/(1+(x/b)^c)$ 

Figure 7B

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Rank 45 Eqn 19 $y=a+b\ln x/x^2$ **Figure 7C**

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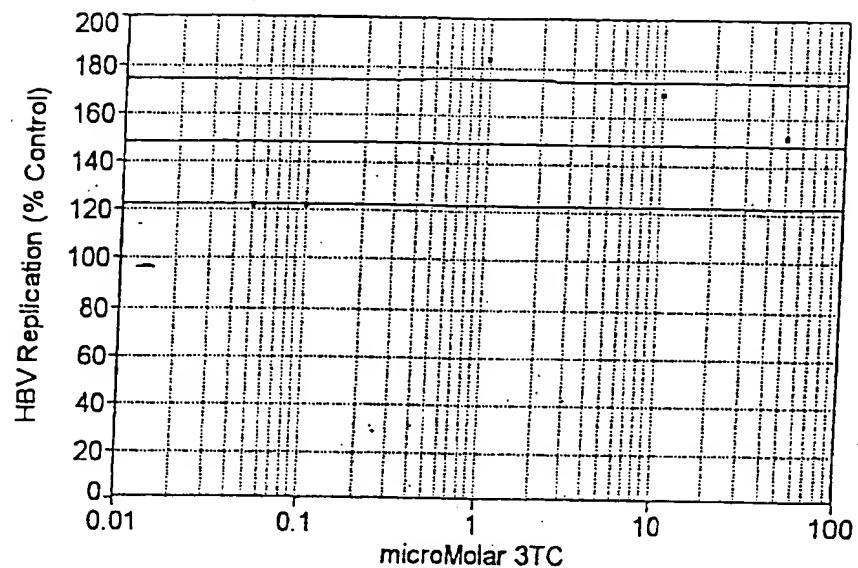
Rank 8 Eqn 10 $y=a+b(\ln x)^2$ 

Figure 8A

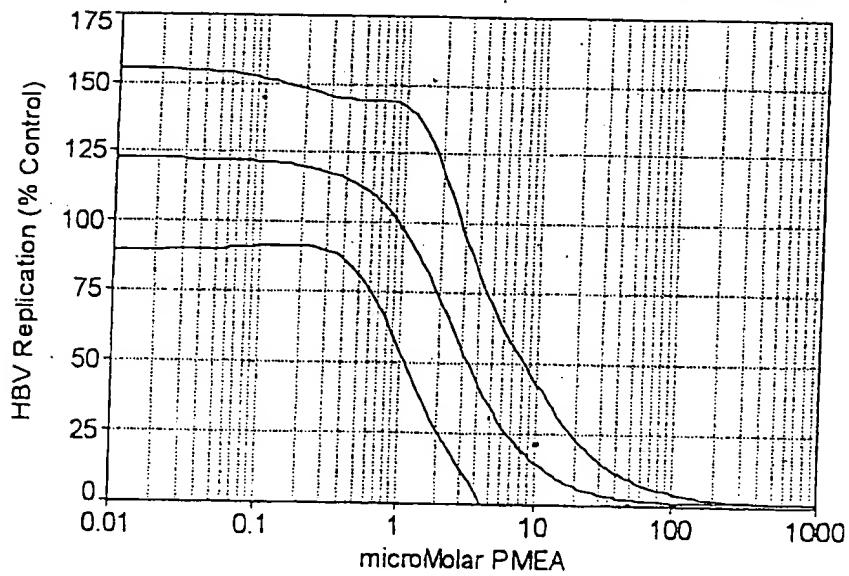
Rank 2 Eqn 8076 [LgscDoseRsp] $y=a/(1+(x/b)^c)$ 

Figure 8B

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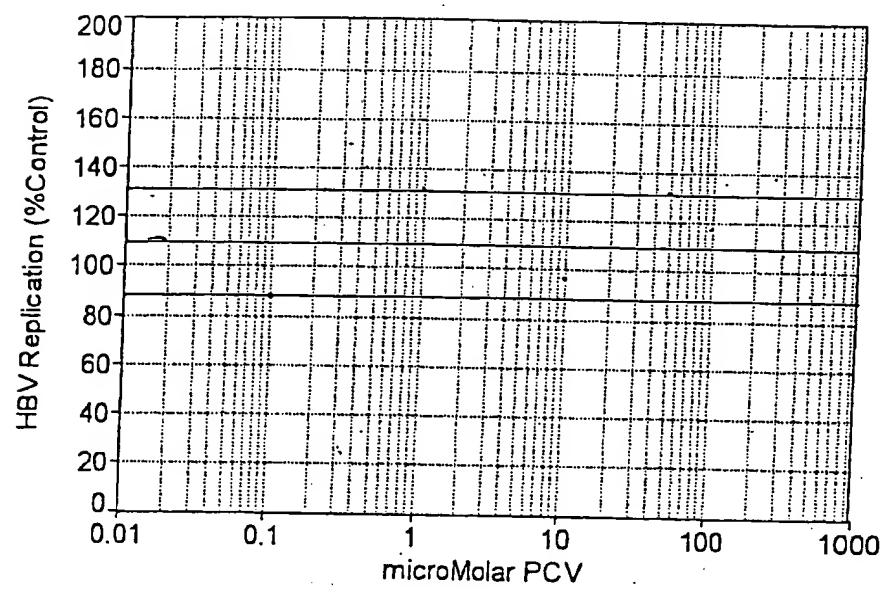
Rank 34 Eqn 10 $y=a+b(\ln x)^2$ 

Figure 8C

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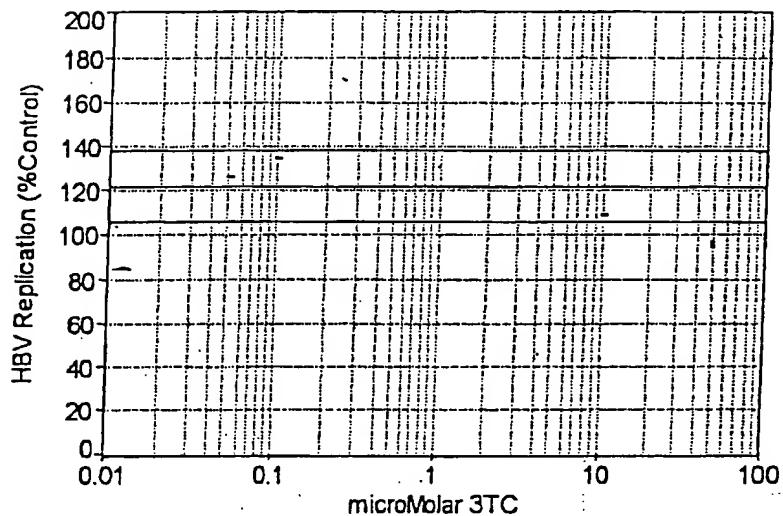
Rank 45 Eqn 10 $y=a+b(\ln x)^2$ 

Figure 9A

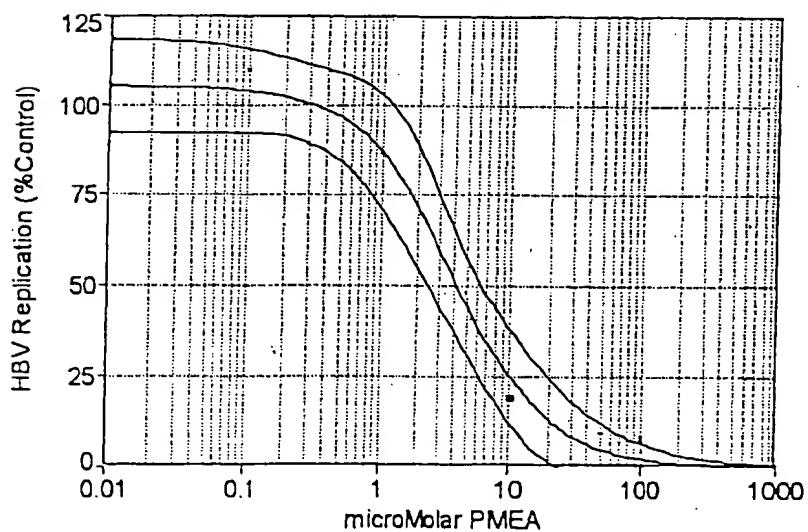
Rank 2 Eqn 8076 [LgstdoseRsp] $y=a/(1+(x/b)^c)$ 

Figure 9B

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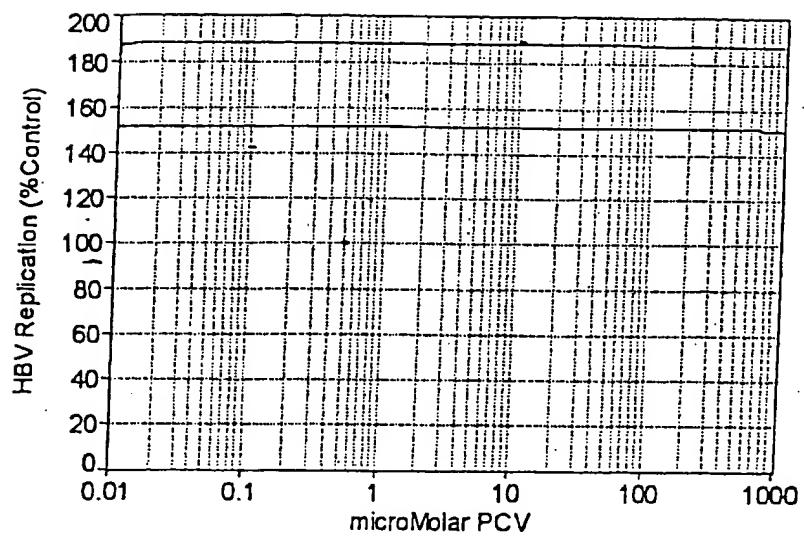
Rank 20 Eqn 10 $y=a+b(\ln x)^2$ 

Figure 9C

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Cold dCTP Competition

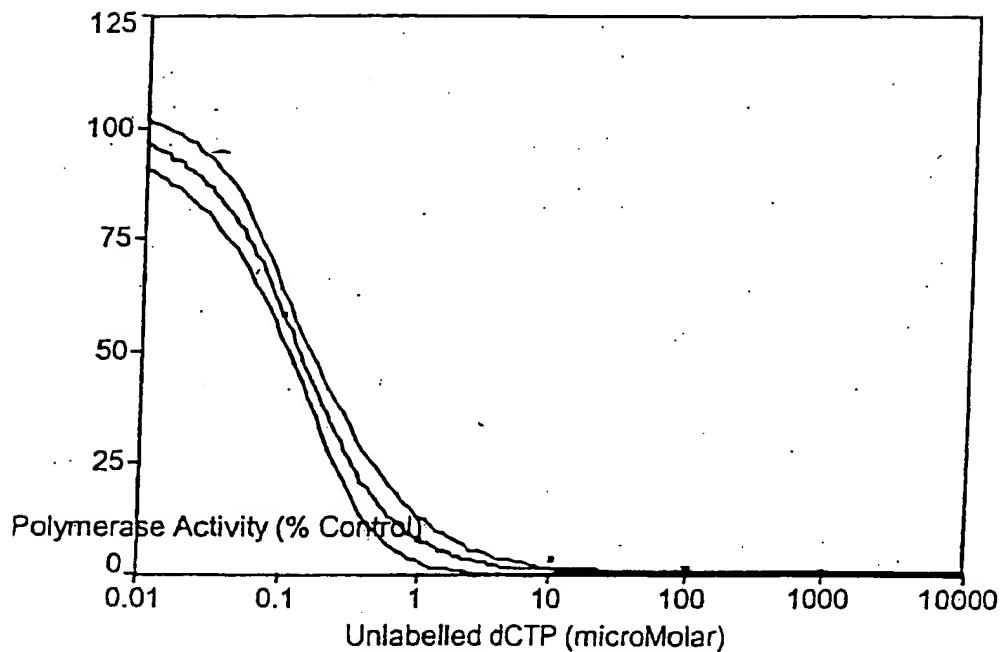
Rank 2 Eqn 8076 [LgstdoseRsp_] $y = a / (1 + (x/b)^c)$ 

Figure 10

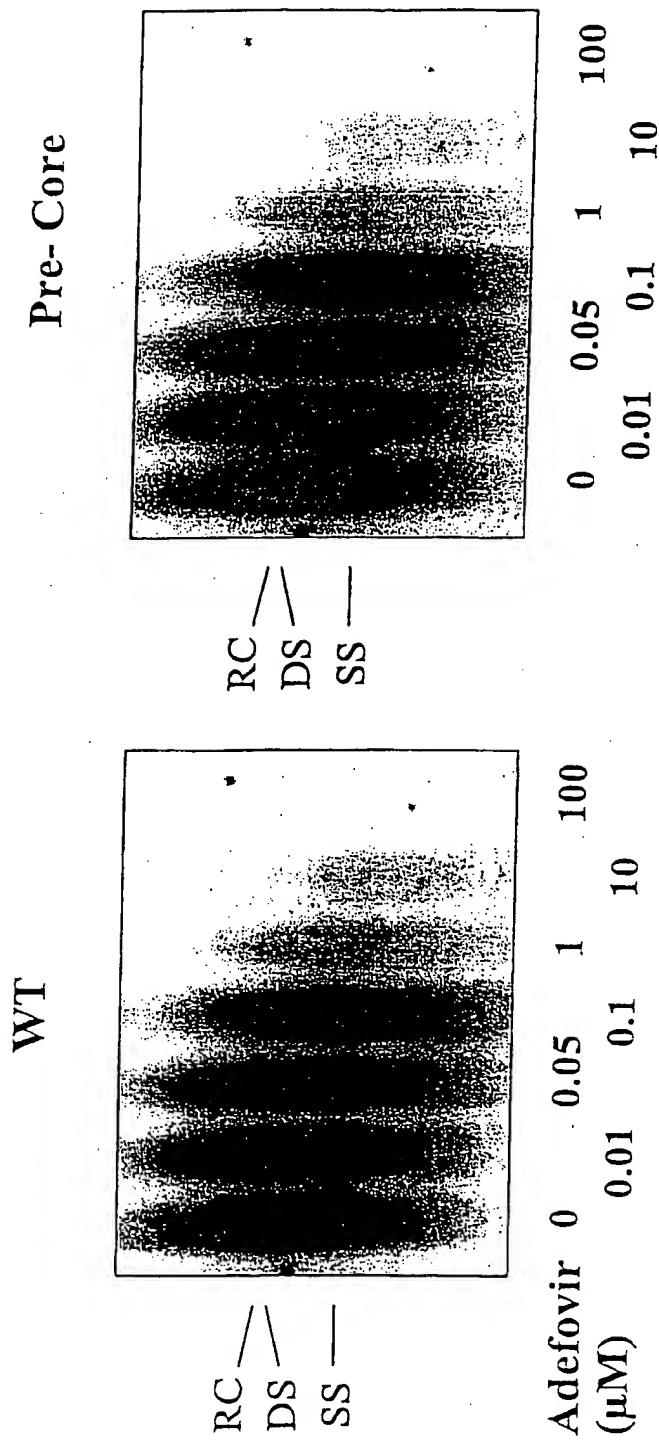


Figure 11A

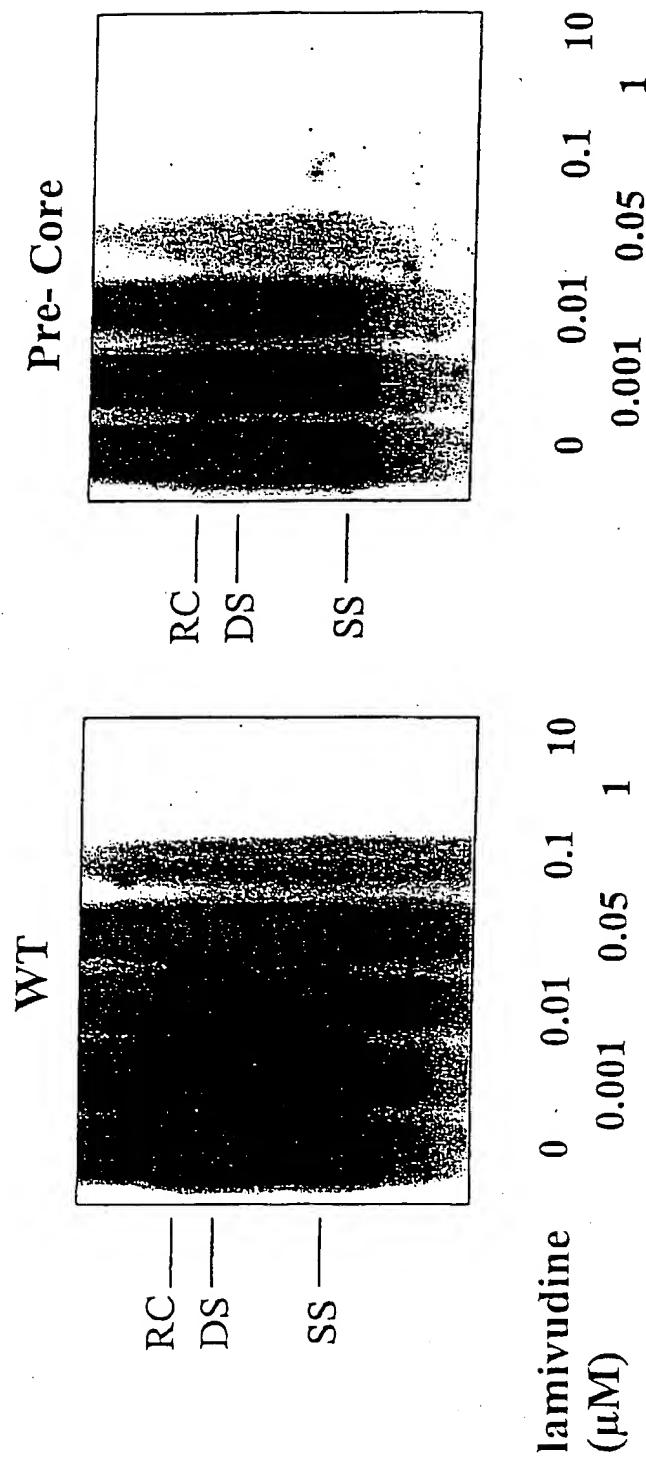


Figure 11B

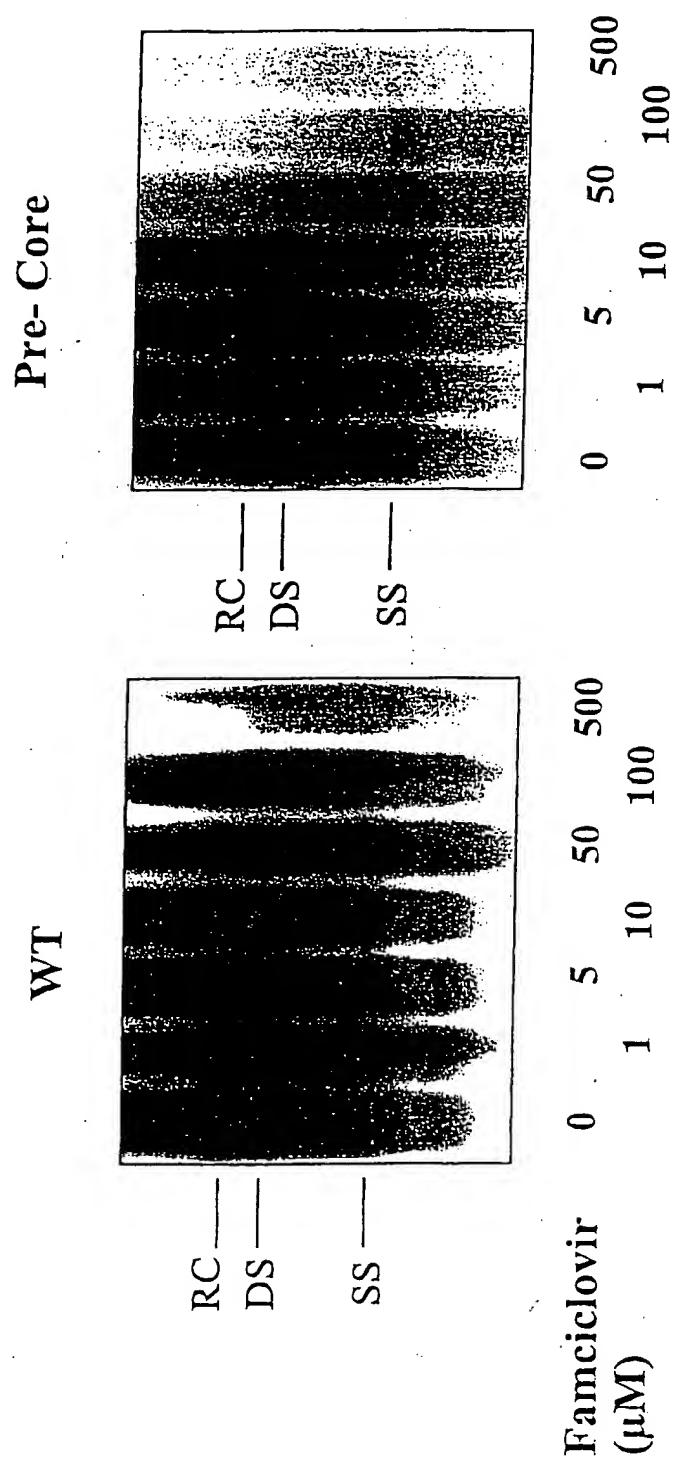


Figure 11C

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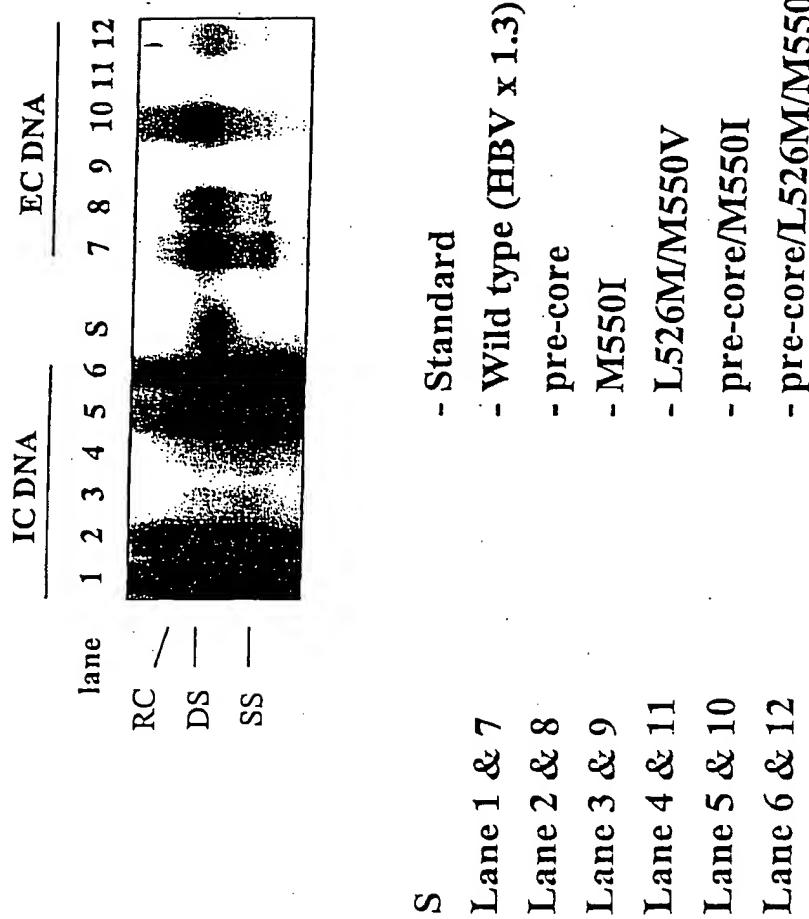


Figure 12

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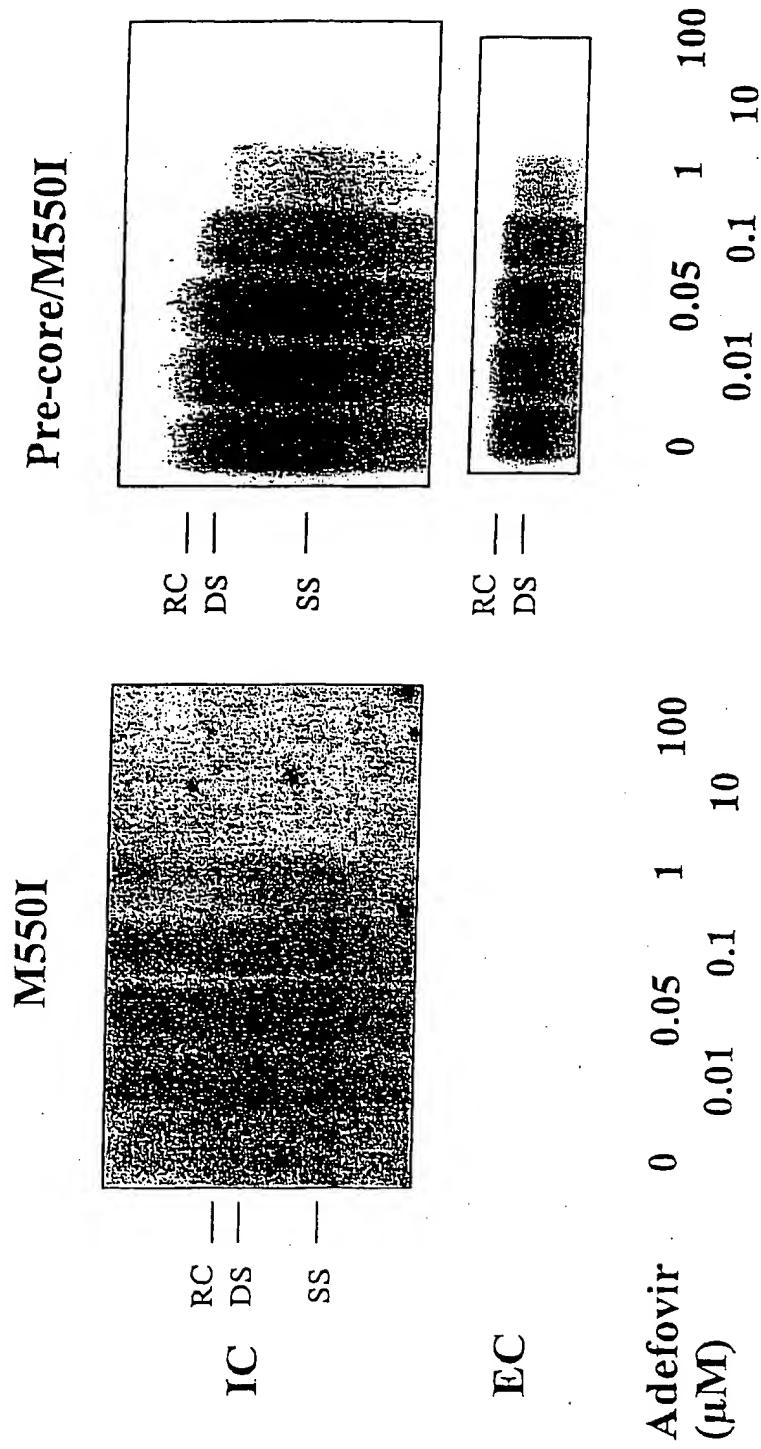


Figure 13A

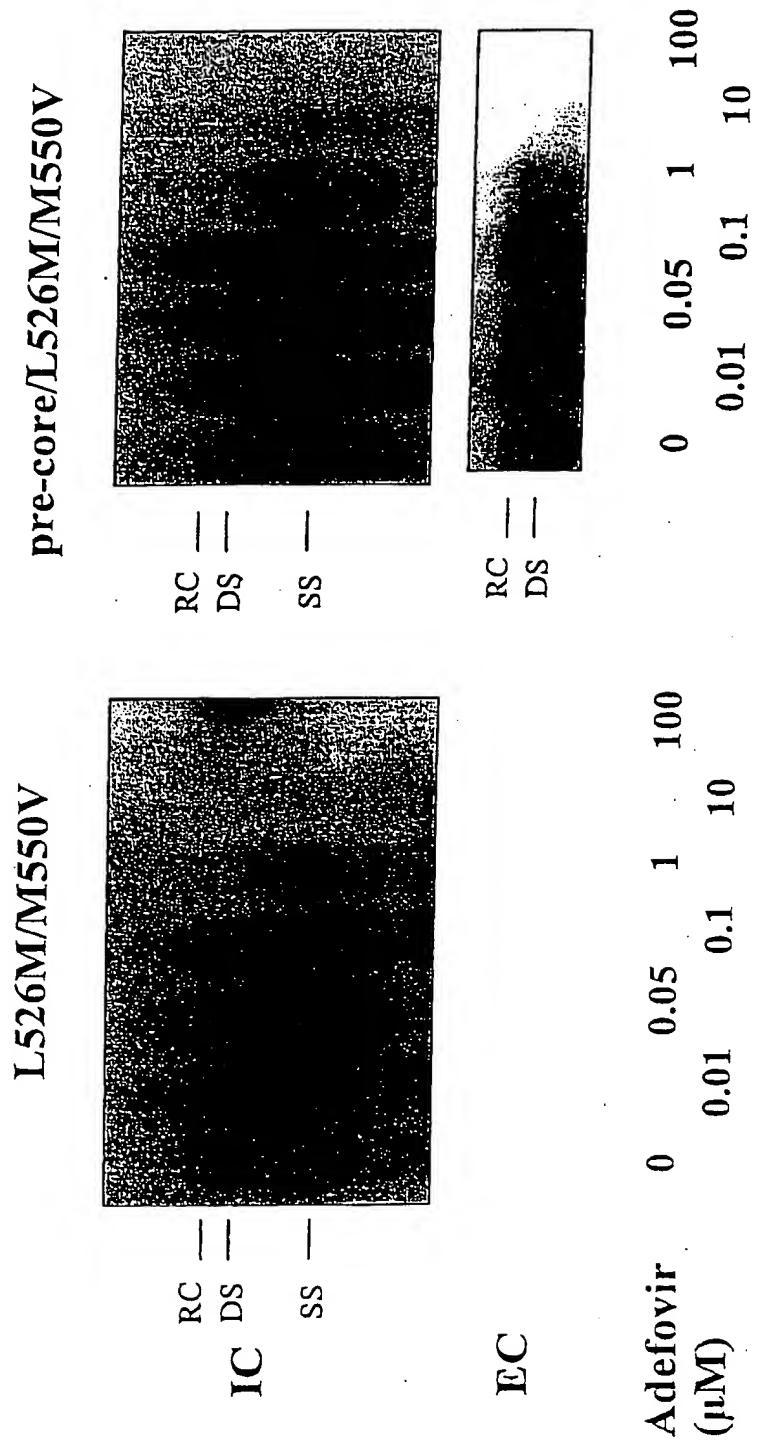


Figure 13B

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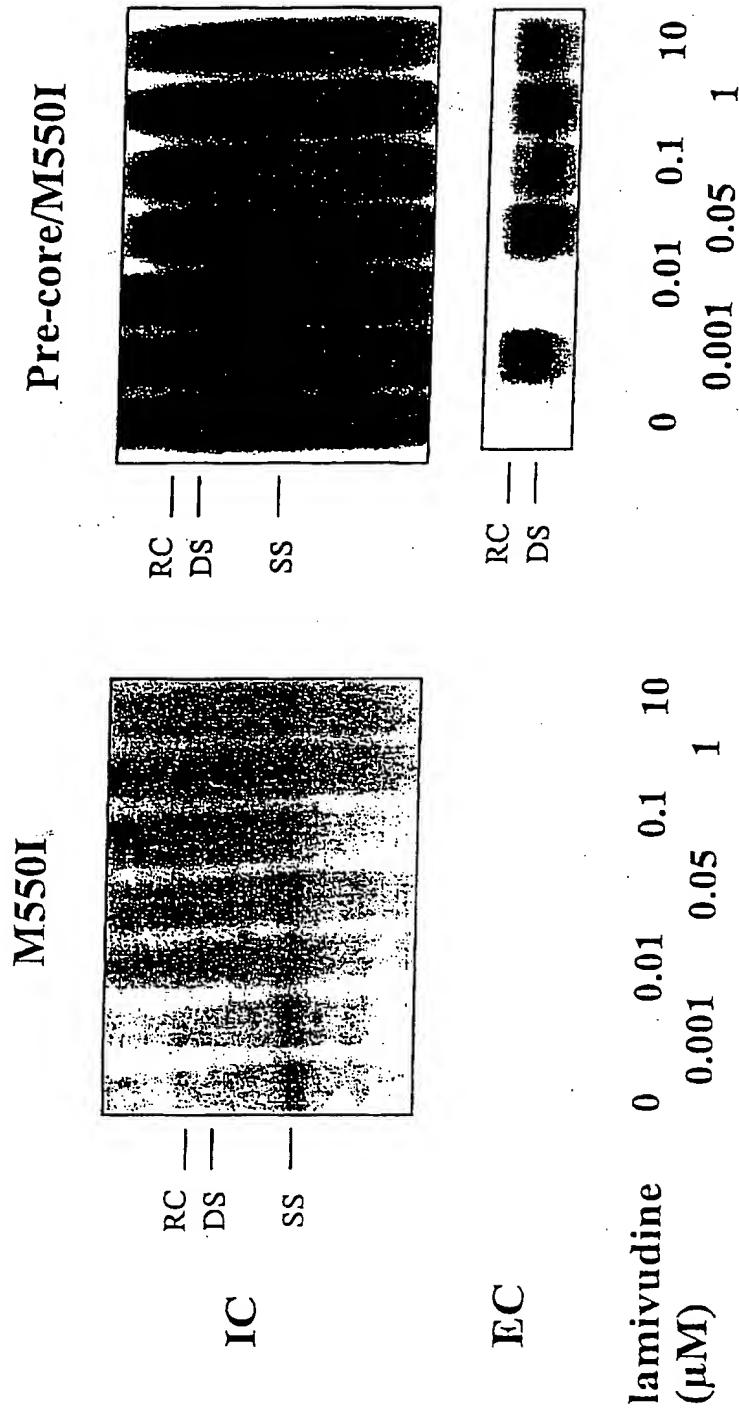


Figure 13C

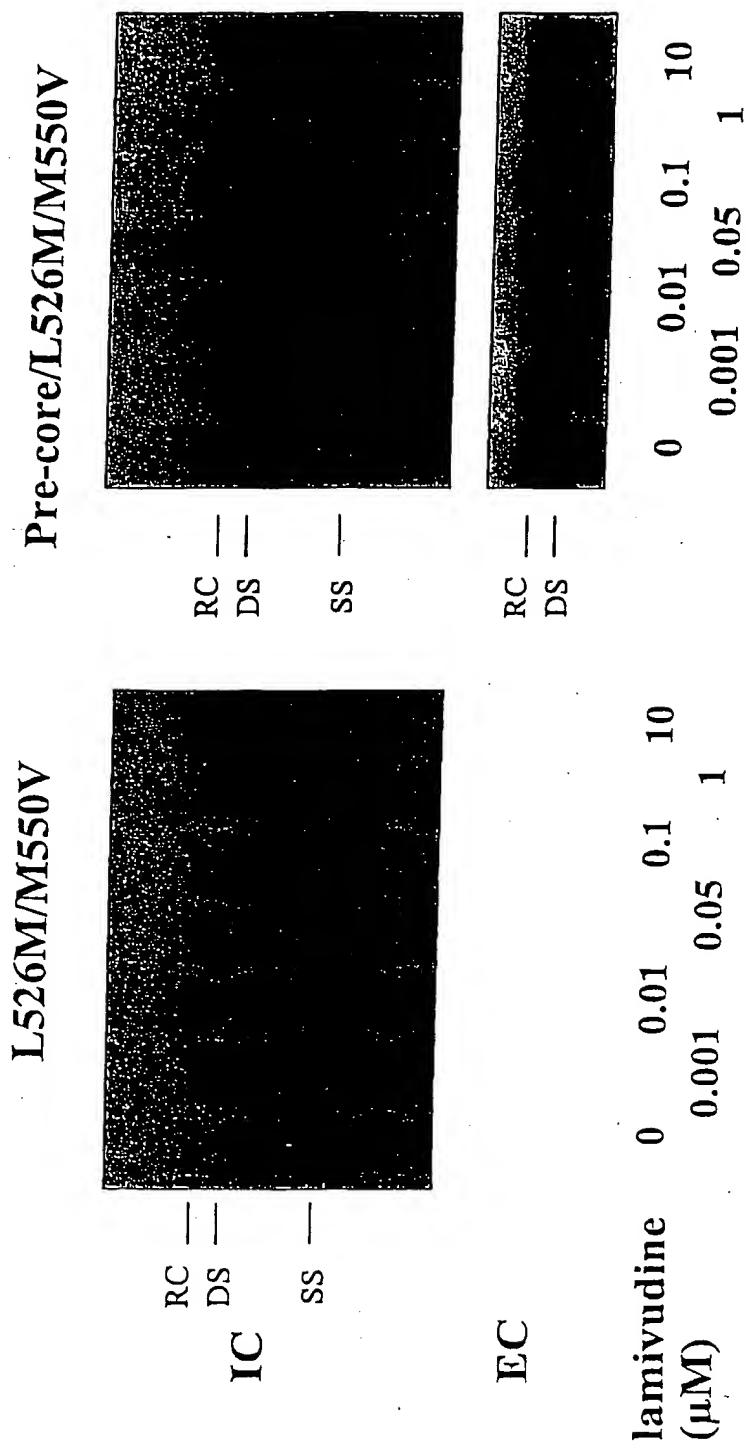


Figure 13D

M550I

Pre-core/M550I

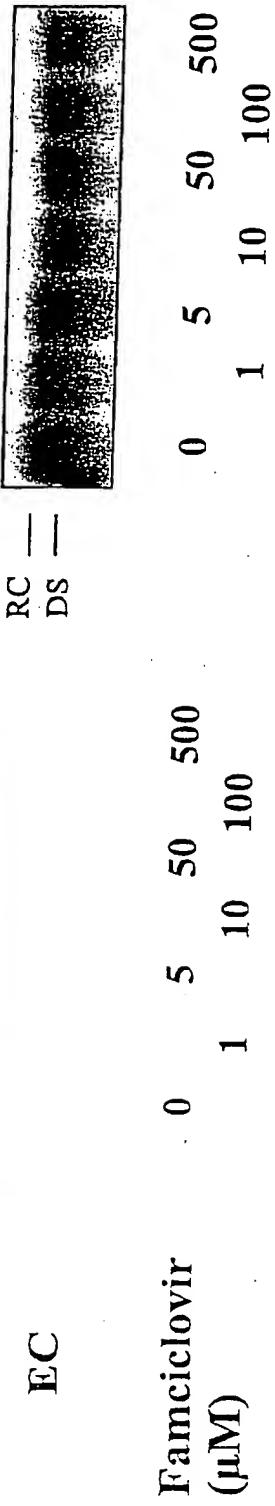
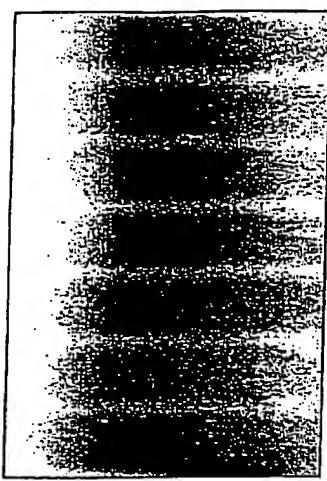
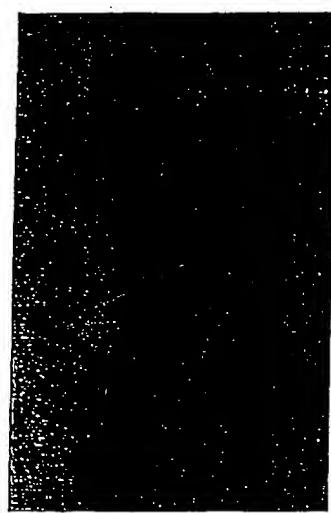


Figure 13E

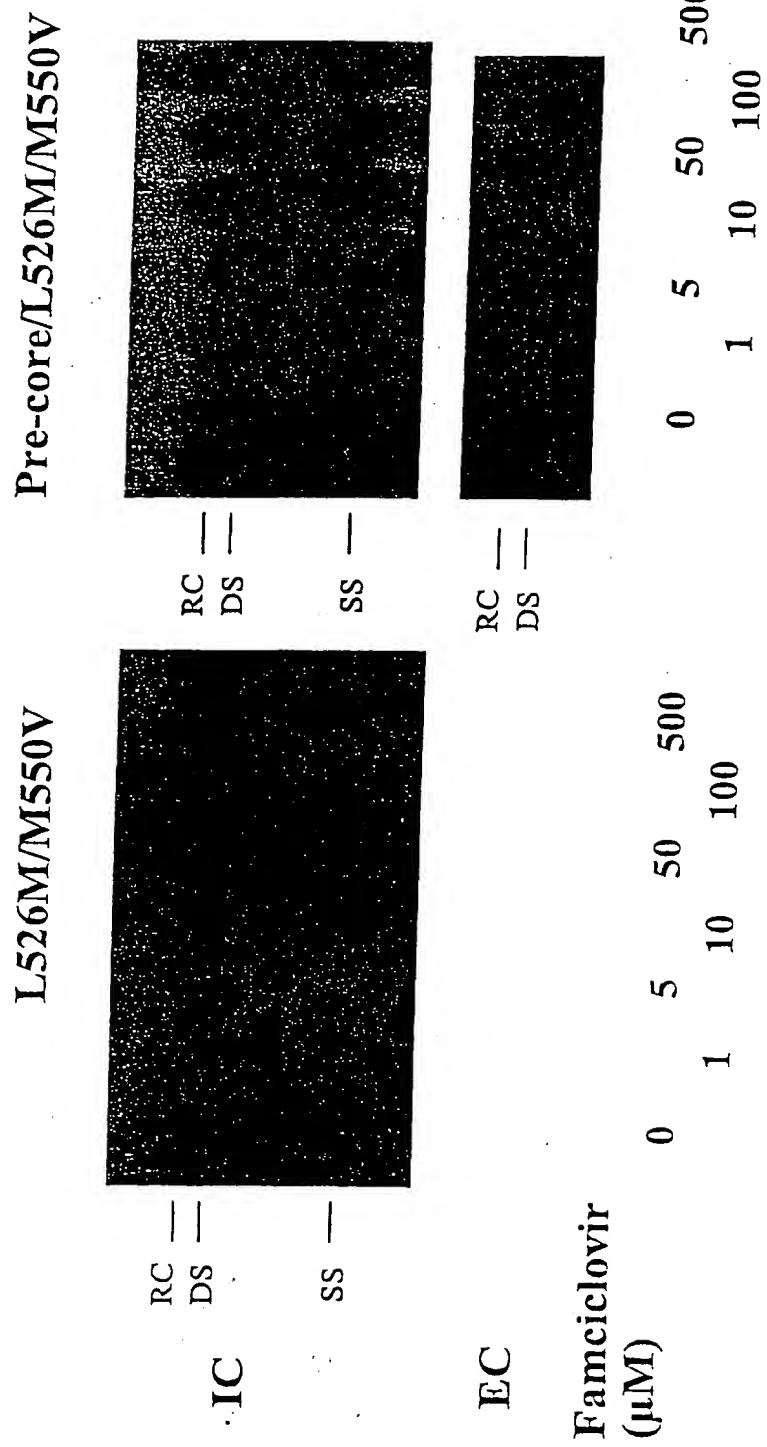


Figure 13F